Stand Alone Type

DVR

MPEG-4

USER'S MANUAL

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• Specification & Organization

1. Specification

Video standard	PAL/NTSC
Audio	2-way Audio conference
Monitor display	Real time:25 Fps (PAL), 30Fps(NTSC) per camera
Covert camera operation	Programmable
Event/Log search	Up to 1,000,000 for user login/out, config changes, remote access, connects/disconnects
Record Scheduling	Daily, Weekly adjust specific Hr per channel
Remote Access	Remote Viewer, Internet Explorer (IE), Simultaneously 4 users support
Playback	Single and quad picture
Pre/Post alarm recording	5 secs(Pre), 3 mins(Post), programmable per camera
VGA	For monitors with Multi Sync Function only
Activity detection	12x12 grid, Sensitivity levels: 10
Simplex/Duplex operation	Triplex
Video inputs	4 x 1Vp-p, CVBS, 75ohms, BNC, looping inputs
Monitor outputs	1 x CVBS/S-VHS, VGA
Spot output	1 x 1Vp-p, CVBS, 75ohms, BNC
Audio inputs	4 x line-in, RCA sockets
Audio output	1 x line-out, RCA socket
Resolution	352x240,704x240,704x480(NTSC) 352x288,704x288,704x576(PAL)
Compression standard	Modified Mpeg4
Recording speed	352x240 : 120/100 (NTSC/PAL) 704x240 : 60/50 (NTSC/PAL) 704x480 : 30/25 (NTSC/PAL)
Image size	3-5 Kbyte (352x240, 352x288) 5-10 Kbyte (704x240, 704x288) 6-16 Kbyte (704x480, 704x576)
Hard disk capacity	3 X HDD (STANDARD DC SUPPLY USE)
Secondary Storage (Option)	USB 1.1 memory stick or CD-RW
Alarm inputs	4 x TTL, programmable as NC/NO

• Specification & Organization

Alarm outputs	1 x Relay with NO/NC contact; 30VDC/1A, 125VAC/0.5A resistive
Back-up file formats	AVI, JPG, BMP
Network Speed Control	8 levels
Pre-alarm recording	Up to 5 sec., programmable per camera
Firmware Version	Ver 2.4
Menu languages	English, Chinese(simplify)
Ethernet interface	10/100-Base-TX, RJ-45
Remote Function	Live View, Live Recording, Search, Set-up, Back-up
PTZ Control	RS-485 interface
Supply voltage	100VAC-240VAC, 1/0.5A, 60/50Hz
Power consumption	Approx. 60watts
Temperature range	5℃ to 50℃
Housing	Steel metal
Color	Black
Dimensions (HxWxD)	370mm*370 mm*70mm
Weight	3.7kg

The reference recording time table(80G HDD Storage Capacity)

Record	Quality	Highest	High	Standard	Low
4Ch (CIF/30Fps)	352x240	41Hr	58Hr	93Hr	154Hr
4Ch (2CIF/15Fps)	704x240	37Hr	46Hr	74Hr	123Hr
4Ch (D1/7Fps)	704x480	19Hr	23Hr	38Hr	61Hr
4Ch (D1/1Fps)	704x480	93Hr	132Hr	154Hr	185Hr

2. Product contents List

Please Confirm the Contents When open Package.

① Basic Contents

2219 Series

12V/5A Adaptor

Power Cable

User's Manual

Remote Controller

Remote Client
Program Install CD

AAA Battery X 2

① Option Contents

HDD

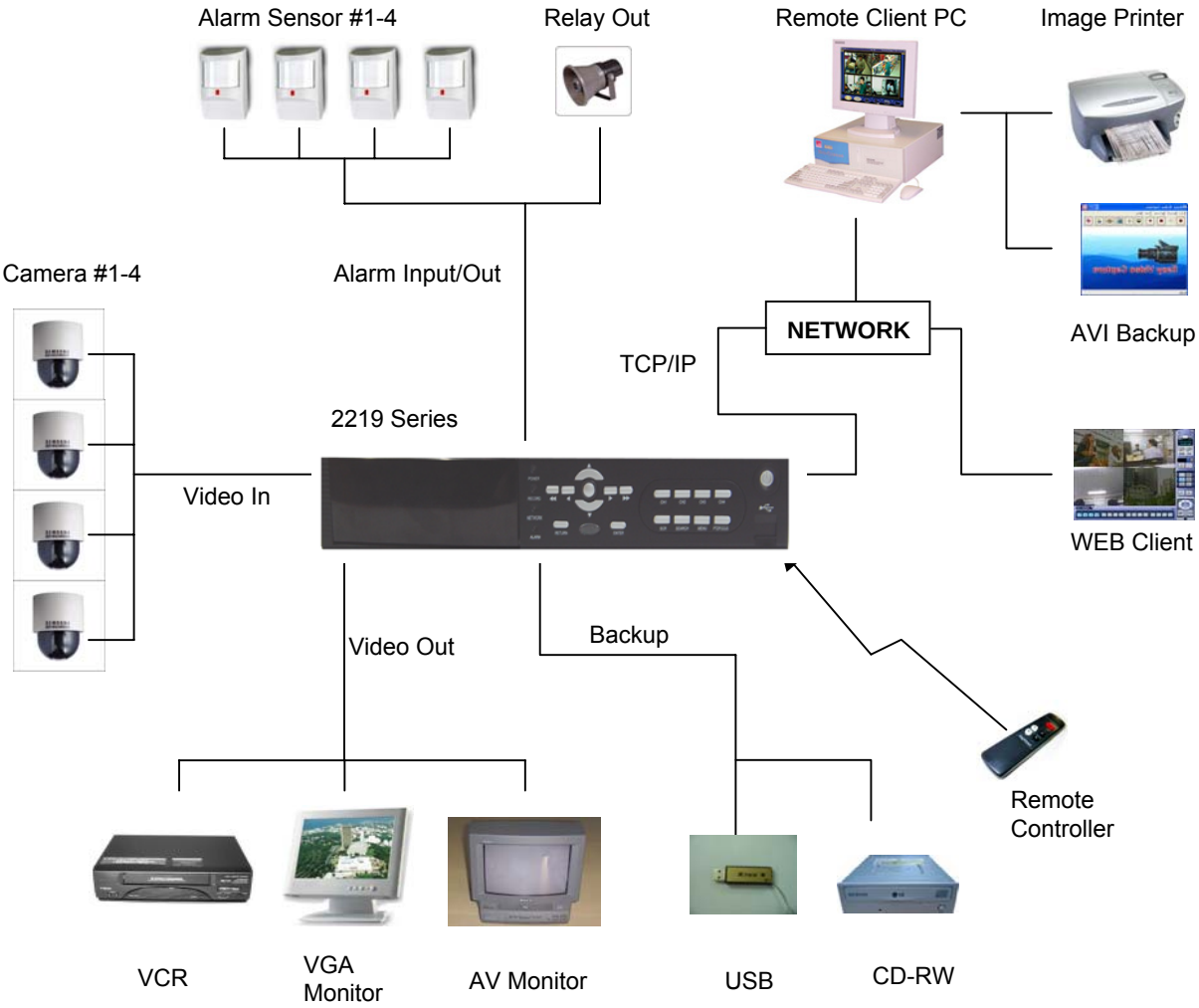
VGA OUT Install Kit

USB MOMORY

CD-RW

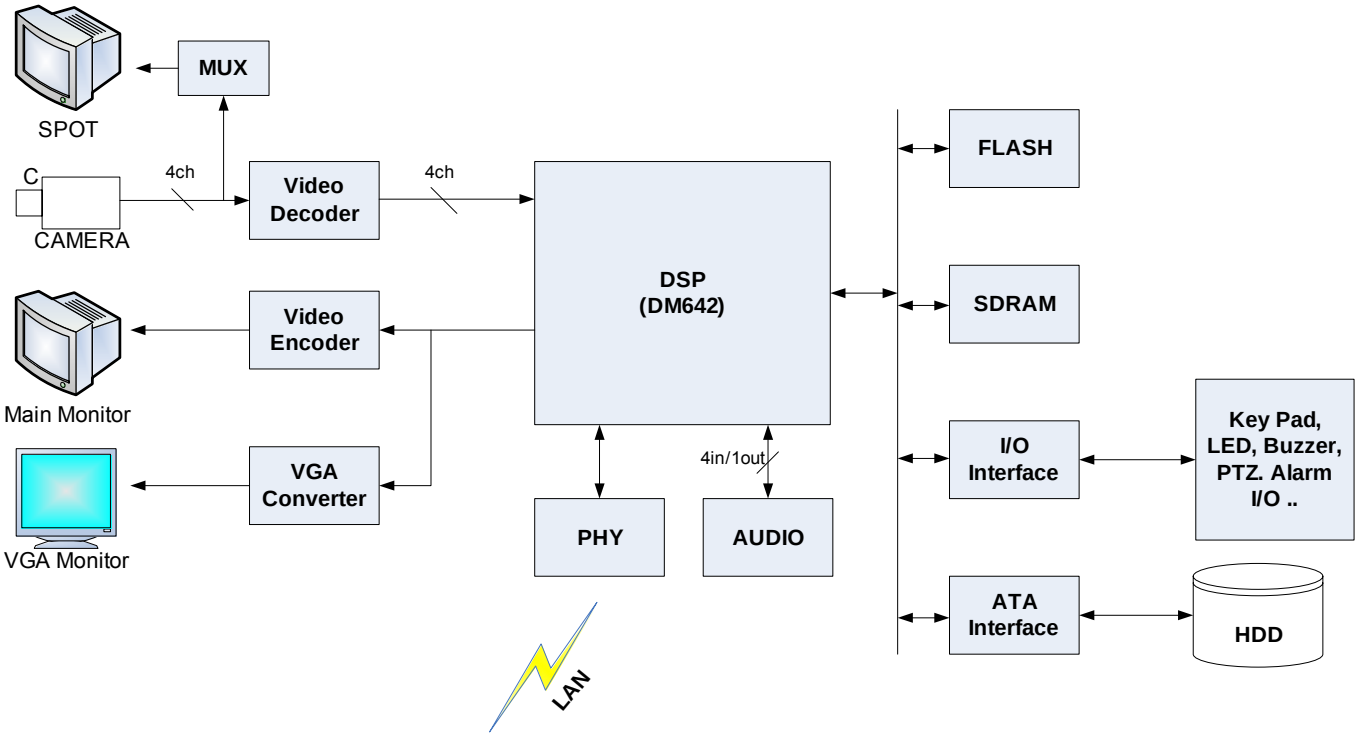
Removable HDD
rack

3. Organization



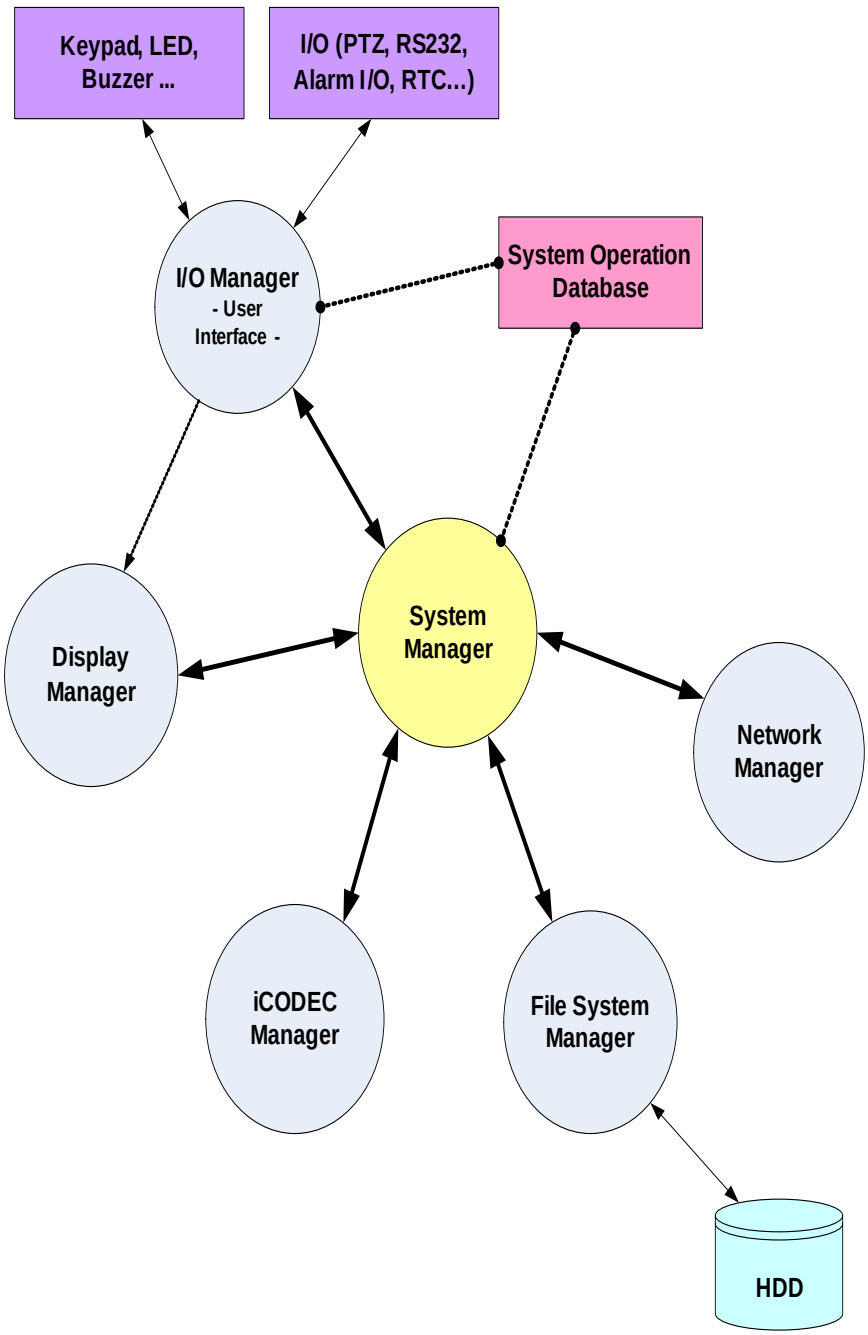
• System Block Diagram

2219 Series H/W Block Diagram



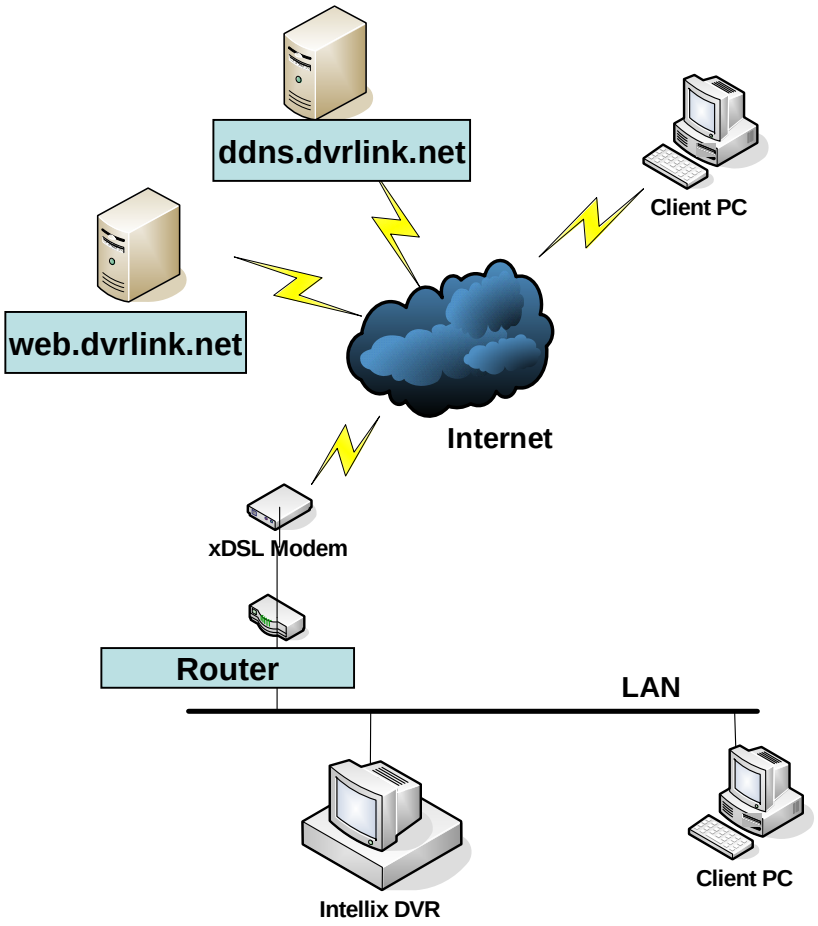
• System Block Diagram

2219 Series S/W Block Diagram



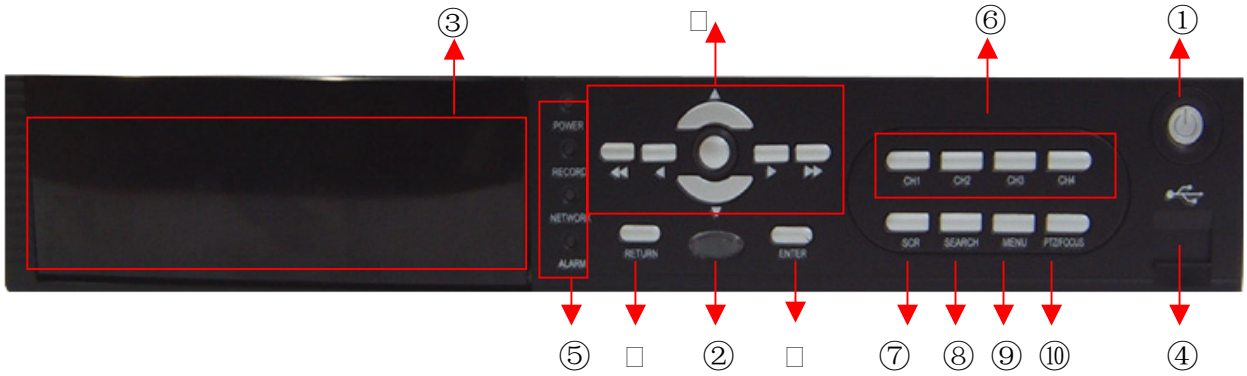
• System Block Diagram

2219 Series Network Block Diagram



• Description

1. Front Panel



① Power : System Power On/Off.

② Remote Controller Sensor Input.

③ CD-RW or removable HDD rack(optional) : CD-RW Device for Backup or HDD for recording.

④ USB Port (optional) : USB port for use the USB memory stick and USB HDD Backup

⑤ LED Indicator : Indicate Present System Status Information.
(POWER: System On/Off , RECORD: Record On/Off , NETWORK: Client Network Connection Status, ALARM: Alarm Sensor Detection Status)

⑥ Channel Selection Button : Select Channel or Input Password.

⑦ SCR MODE : Select Screen Division Mode or Rotation Mode.

⑧ SEARCH : Go to Search Mode for Searching Data.

⑨ MENU : Go to System Menu.

⑩ PTZ/FOCUS : Go to Camera PTZ/FOCUS Control.

□ Search Controller : Searching Recorded Data or Control Menu & PTZ/FOCUS.

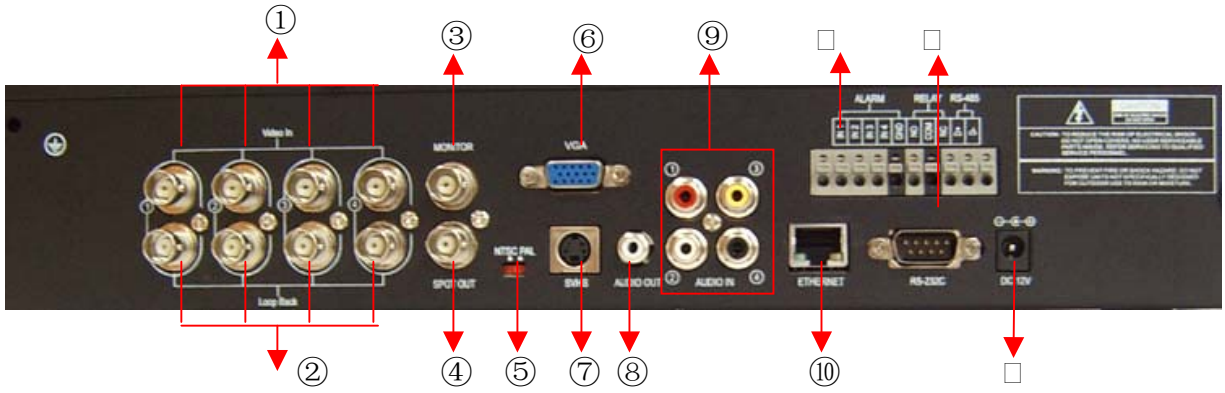
□ ENTER : Apply Changing Setup or into next mode.

□ RETURN : Cancel Setup or Return to Previous Mode.

Tip

- Power Button is Soft Style to Prevent System Failure by Wrong Operation.
- Channel Selection Button is Prior to SCR Mode.
- When Remote Controller Sensor Input is Blocked by Something, it may Cause Remote Controller do NOT Work Properly.
- When Press any Button, it Operate with Beep Sound.
- In Case of CD-RW, the Real Appearance will be Differ from the above Picture Depends on its Model.

2. Rear Panel



① Video In : BNC Port for Connection of DVR & Camera. (4 Cameras Connectable)

② Loop Back : Output DVR Camera Video to Loop Back Port. (4 BNC Ports)

③ Monitor Out : Output DVR Video to AV Monitor.

④ Spot Out : Output Spot-out Video to AV Monitor.

⑤ NTSC/PAL : Select NTSC or PAL Type.

⑥ VGA OUT : Output Video to a Computer Monitor by Connected VGA.

⑦ SVHS : Output Video by Connected SVHS.

⑧ Audio Out : Output Audio Data.

⑨ Audio In : Audio Input Terminal Related with #1~4 Cameras.

⑩ Ethernet (TCP/IP) : Port for Cross cable. (Possible to Remote Surveillance.)

□ Alarm/Relay/RS-485 : Connect Port for Sensor, Relay, & PTZ.

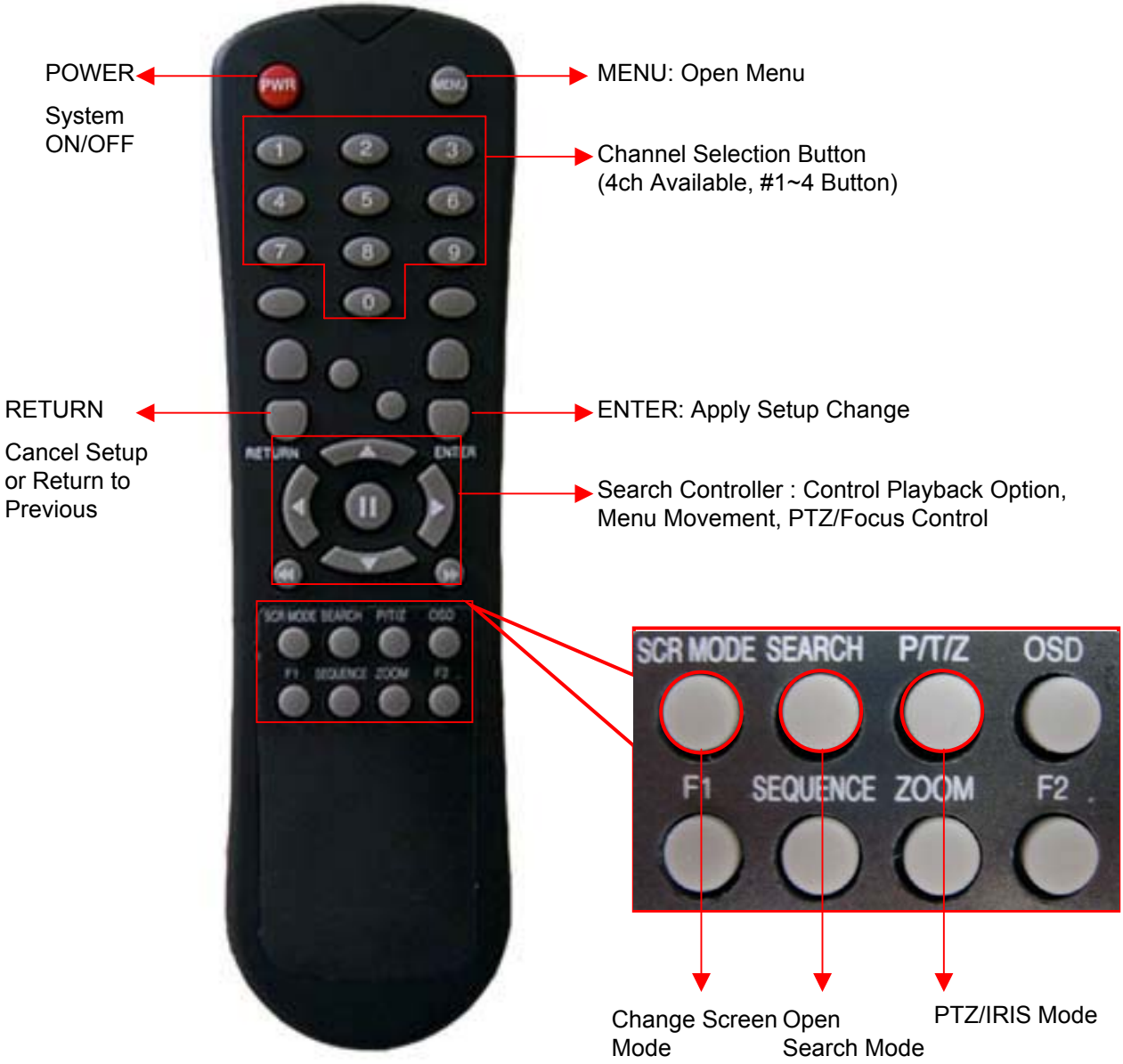
□ RS-232C : Connect Port for Program Debug.

□ DC Power Input : Power Supply by DC 12V/5A Adaptor.

Tip

- When System Installation, Please Install under System Power Off Status.
- Please Use Specific Adaptor when Power Supply.

3. Remote Controller



• Unused Button's Description is Omitted.

• Every Button is Operated Same as Front Panel Button.

• Remote Controller can Operate when Remote Controller Sensor Input Part Reacted Each Other.

※ If there are many DVR at the same place, they are reacted together when press remote controller.

• Installation

1. Hard Disk Installation(in the fixed HDD rack)

① Jumper Setup as Master or Slave

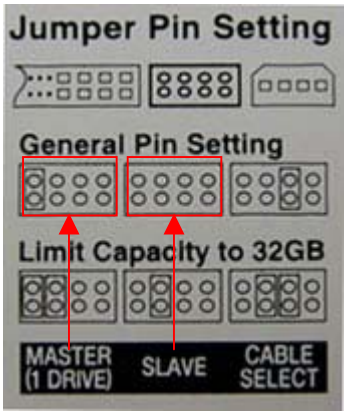
• Jumper Setup as master or Slave, Following the Direction of Surface of Hard Disk.

• Jumper Located at Hard Disk Data Cable or Rear Side of Hard Disk.

• If One Hard Disk Installation, Setup as Master If Two Hard Disk Installation, Second One Setup as Slave.

✦ When Hard Disk Add or Exchange, Must System Off Properly (System Off by Power Button). If not, it's a Cause of Fatal Hard Disk Error.!!

※ Example of Samsung HDD Jumper Setup



• Refer to General Pin Setting in Jumper Pin Setting on HDD Surface.

• When One HDD Install, Setup Pin as Master and Connect Pin at the Left End of Jumper.

• When Two HDD Install or Additional Install, First One Setup as Master and the Other is for Slave. Slave Setup has No Pin.

• When More than Two HDD install, Setup as Master or Slave to Connect One IDE Cable at the Same Method of Above.

✦ Please Use Hard Disk which Possible to Supply Higher than UDMA66.!!

② IDE Cable Connection to Main Board

• Confirm the IDE Cable Inside of Product

• Among the Three Connector, Indicated Blue Color Connector Must be Connected with Main Board. Other Connectors Connected with HDD

• Installation

② Connect IDE Cable to Hard Disk

• Insert Disk, Red Cable Head to Power Cable Plug

• Connect Power Cable to Hard Disk in the Same Way

If One HDD(master) Install, Connect with End of Connector (Black) Recommended.

If Add HDD(slave), Connect with Middle Connector (Gray) Recommended.

One HDD Installation

Two HDD Installation (master HDD is below,slave HDD is up)

③ After Finishing Cable Connection, Attach Hard Disk with Screw & Bracket

Tip

For Rear Panel

• When Install Master HDD, Please Connect at IDE1 Port by Master Cable.

• It means, Master Connector which Connected with IDE1 Cable Must Connected with HDD (Master).

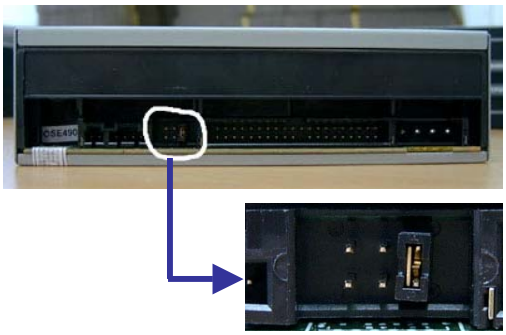
□Master, Slave?

• IDE Hard Disk can connect two equipment at one cable (port). For the purpose of prevent confusing, two equipment named 'Master' & 'Slave'. 'Master' is one hard disk or first hard disk and 'Slave' is below second hard disk.

• Installation

1. CD-RW & Hard Disk Installation

① Jumper Setup as Master or Slave



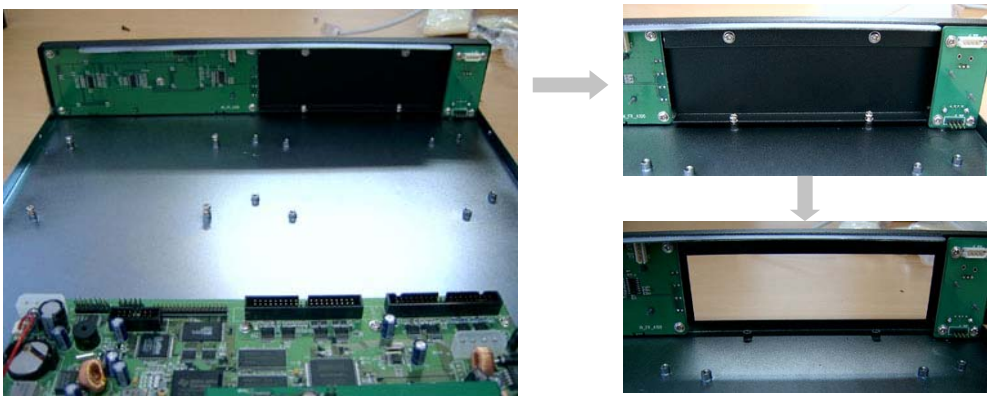
Incase of LG-8526B, MASTER

• Jumper Setup as Master or Slave (Refer to CD-RW Direction at the Surface).

• If Install One CD-RW at One IDE Cable, Setup as Master
If Install One CD-RW & HDD at One IDE Cable,
CD-RW Setup as Slave.

When CD-RW Install, Exchange, or Remove, Please System Off Properly (System Off by Power Button) and Disconnect DVR Power.!!

② Remove Bracket for W/O CD-RW at the Front



③ After Assemble with Bracket, Attach to the Case

• Installation

④ Connect by IDE Cable & Power Cable at the CD-RW

Tip

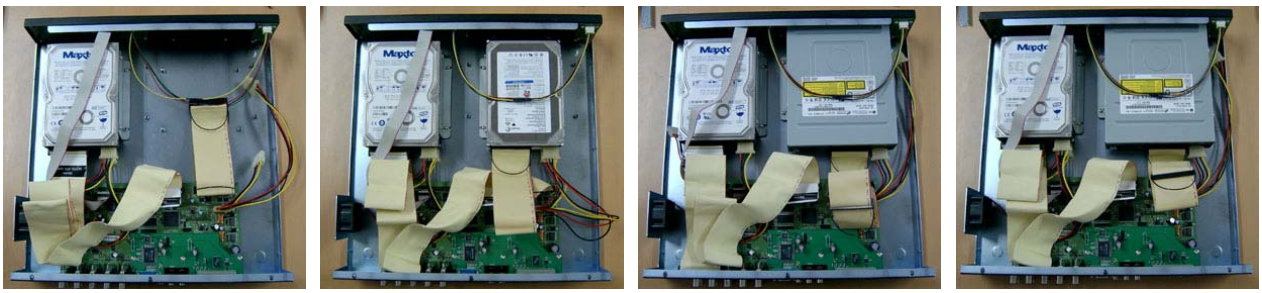
For Rear Panel

- When Install Master HDD, Please Connect at IDE1 Port by Master Cable.
- It means, Master Connector which Connected with IDE1 Cable Must Connected with HDD (Master).

⑤ After Assemble with HDD Bracket & Connect Cable (Refer to Previous page for HDD Setup)

<EX>When Two HDD Installation

⑥ Example of Install CD RW & HDD



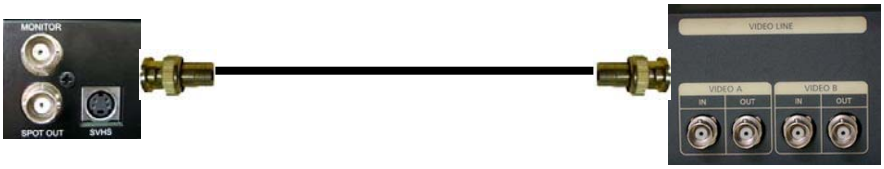
HDDx1 HDDx3 HDDx1+CD HDDx2+CD

2. Camera Connection

Connect Camera at BNC Port in Back Side Panel.

3. Monitor Connection

Connect Monitor Terminal or S-VHS Terminal to Monitor

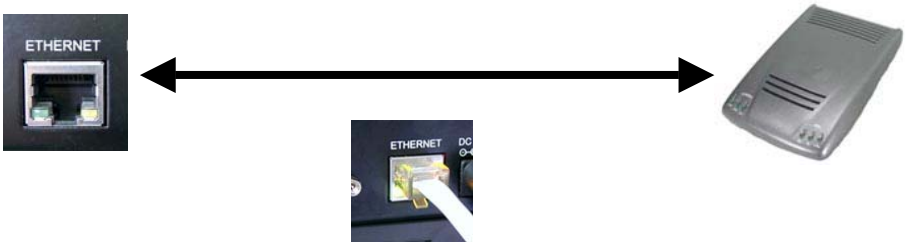


4. Computer Connection

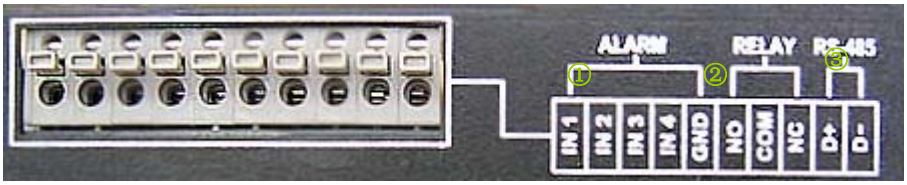
Connect VGA OUT Terminal to Computer Monitor

5. Network Connection

Connect Ethernet Terminal and Network Cable



6. Alarm/Relay/PTZ Connection



① ALARM

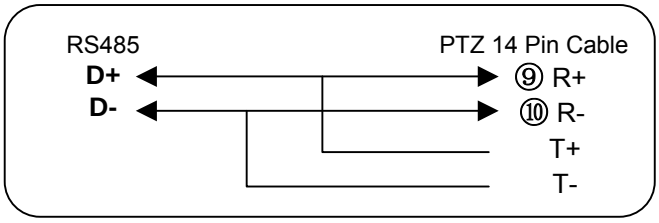
Alarm Input - 'IN1, IN2, IN3, IN4' : Connect Sensor Input by Channel
'GND' : Connect Ground System

② RELAY

Alarm Output – 'NO, NC' : After Checking Alarm Output Type (Normal Open or Normal Close) and Connect to 'NO, NC'
'COM' : Connect Remain Grounding Conductor

③ RS-485

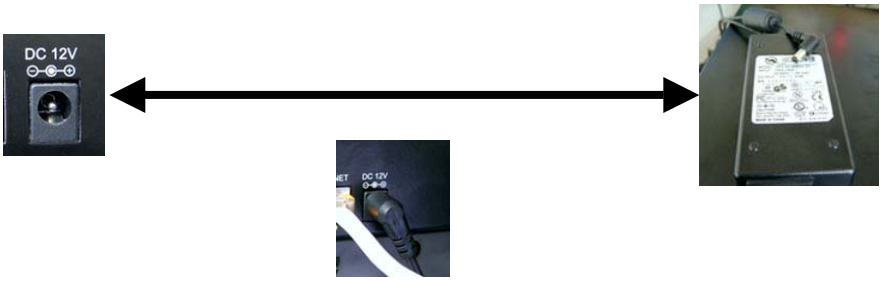
Connect PTZ Camera – 'D+, D-' : Connect PTZ Camera Control Line (+ , – Terminal)



Example of Connection PTZ Camera No. 14 Pin Connector

7. Power Connection

Connect DC Power Input Terminal and Specific Adaptor



8. Finishing Installation

System Start by Power Button after Finishing Installation

※ Hard Disk Format

- If Do Not New Hard Disk Format, System Can't Recognize the HDD.
  So it's Same Situation of No HDD. Please Format HDD when Insert New HDD.
  (Only Display Possible, Not Work Menu & Search)

1. Power On

Checking Hard Disk Drives ...
Disk0 [SAMSUNG SP0802N]
Total 1 Hard Disk Drive Found.
New System Disk Detected.
All Disks Will Be Formatted.
Format All Disks? NO (0)

2. New HDD Format
(Select By Play , Backward Play Key)
When new discovery HDDs are two, It ask about each format. Then choose the Yes about all HDDs. If you Format the first HDD only, maybe second HDD don't Format.
※ When you are doing to format, Never turn off.
If turn off, HDD is able to occur fatal error.

3. System Start (Initial Mode)

• Installation

When installing ,something important you must pay attention to!

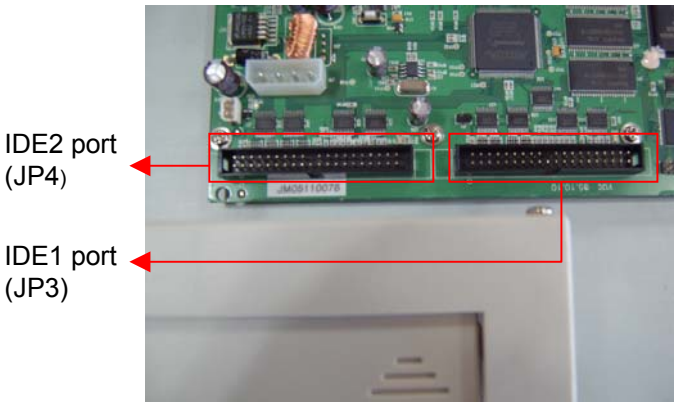
First: There must be a HDD,the DVR System can operate normally, other wise it can display only .

Second: When you install HDDs ,a Master HDD must be connected to IDE1 (JP3 in Main Board).

2219 series DVR have some types with different functions,such as USB, VGA,CD-RW and Removable HDD rack,you can choose the special one according to your needs.

Now ,The next text will tell you how to install a removable HDD rack.

(1)Like install CD-RW, you need to fix up a removable HDD rack firstly.



(2)Connect a removable HDD by IDE cable and power cable to the main board.

One side of IDE cable is connected to a removable HDD rack and the other side to IDE1 port(JP3) but not IDE2 port(JP4).

This is our factory's default setting with a removable HDD rack DVR.

Here you must note that when install a CD-RW,the other side of IDE cable is connected to IDE2 port(JP4) but not IDE1 port(JP3).

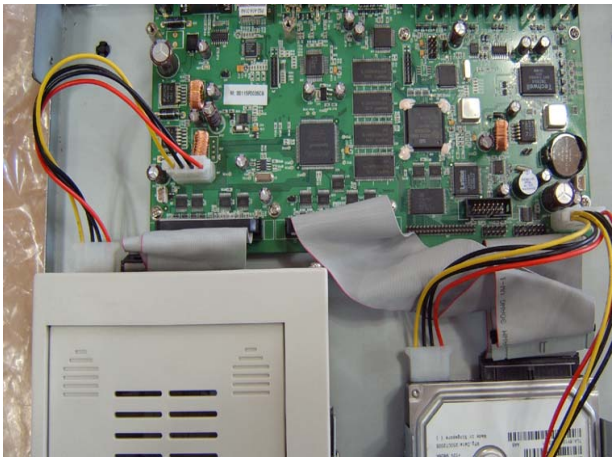
• Installation

(3)If you install only a HDD, you may push a HDD into the removable HDD rack. The process is so convenient that you don't need to open the cover of the DVR.

(4)If you want to install more than one HDDs, you must open the DVR cover,and install the fixed HDDs.

At the same time,you must remove the one side of IDE cable from IDE1 port(JP3) to IDE2 port(JP4) whose other side is connected to a removable HDD rack and connect fixed HDDs to IDE1 port(JP3) by IDE cable.

Install the fixed HDD rack



Put the HDD in the fixed HDD rack

• Display

1. System Power ON

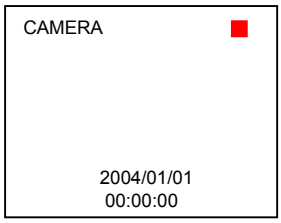
Picture for Power On
after Finishing Installation

POWER

• Press Power Button to Start System

• After Checking Hard Disk, Need input Password to Operation

• Initial Screen View Mode is Quad Division Mode and Recording Mode



• Each Channel Indicate Camera Name & Recording Status

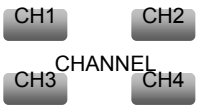
• Present Time & Date Indicate at Monitor Central Lower Side

Tip

• Check System Condition at LED

POWER : Showing System On/Off
RECORD : Showing Record On/Off
NETWORK : Showing Client Connection Status
ALARM : Lighting when Sensor Alarm Activate

2. Select Screen Mode



• Select One Channel among 4 Channels

• Move to One Enlargement Watch Mode when Quad Screen Division Mode

• Move to One Enlargement Watch Mode when Rotation Mode

3. Screen Rotation Mode (SCR MODE)

SCR MODE

- User can Select 3 Kinds Watch Mode
  - ① Quad (4CH) Division Watch Mode
  - ② Selected 1CH Watch Mode
  - ③ 4CH Rotation Watch Mode
- Quad (4CH) Watch Mode is Initial Mode when System Start

Quad (4CH) Division Watch Mode

Selected 1CH Watch Mode

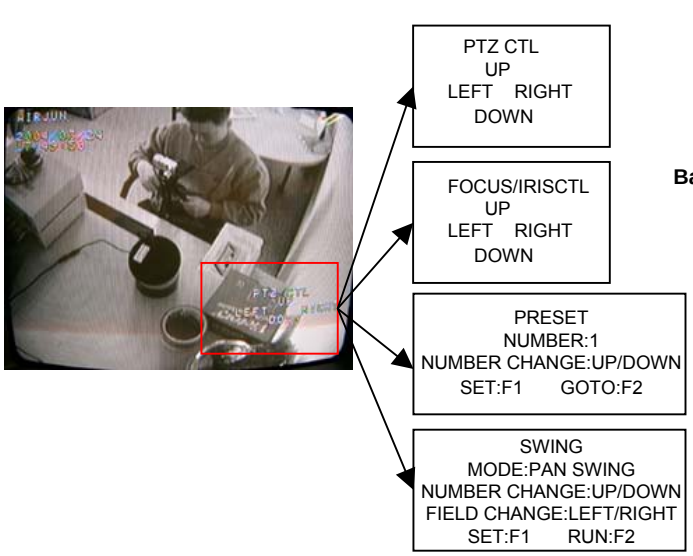
4CH Rotation Mode

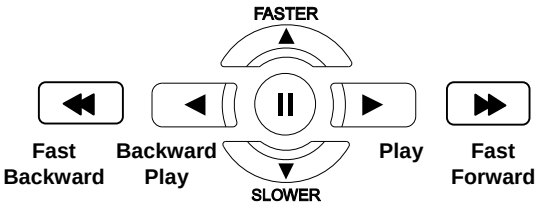
4. PTZ/FOCUS Control

PTZ/FOCUS

- Control Camera PTZ (Pan/Tilt/Zoom) & Focus (Only Useable for Proper Camera)
- Press PTZ/FOCUS Button to Open PTZ Menu at Right-Under Side and Control by Search Controller
- Press PTZ/FOCUS Button Second Time to Open FOCUS/IRIS, PRESET, SWING Menu and Control by Search Controller

• Display





Search Controller

4.1 PTZ Control

① Control Camera Movement by ‘Faster’, ‘Slower’, ‘Backward Play’, ‘Play’ Button (Up,Down.Left,Right).

② Zoom In & Out by ‘Fast Backward’, ‘Fast Forward’ Button.

③ Keep Press Button Make Continuous Movement.

4.2 FOCUS/IRIS Control

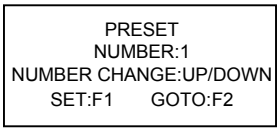
① Control Iris by ‘Faster’, ‘Slower’ Button.

② Focus On by ‘Backward Play’, ‘Play’ Button.

③ Zoom In & Out by ‘Fast Backward’, ‘Fast Forward’ Button.

④ Keep Press Button Make Continuous Movement.

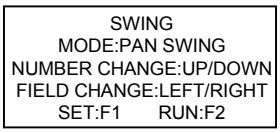
4.3 PRESET Control



① By Preset Function, Possible to Setup Direction and Focus of PTZ Camera.
② After Selecting Position at PTZ Control Mode, Save Data at Preset Mode.
③ Setup 'NUMBER' from 1 to 128 by 'Faster' & 'Slower' Button.

④ Save by Front Panel Key No.1 Button or F1 Button on Remote Controller.
⑤ To Move to Saved Location, Press Front Panel Key Button No.2 or F2 Button on Remote Controller.
⑥ It support at Protocol D/Protocol P/D-MAX only.
※ In protocol D case, It have to keep the memory after memorable setting are deleted.

4.4 SWING Control



① SWING Function Dedicate Each No. of Saved Preset and Swing as Pan or Tilt.
② Changing Mode by Backward Play Button.
Changing Setup by Faster, Slower Button.

③ PAN SWING MODE : Rotate Left , Right Side.
TILT SWING MODE : Rotate Up, Down Side.
START PRESET : Select Starting Point. (1~128)
END PRESET : Select End Point. (1~128)
SWING TIME : Select Halt Time as Each Point. (1~64sec)
SWING SPEED : Select Moving Speed of Camera. (1~64)

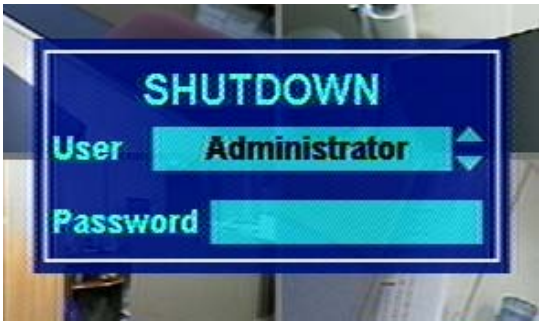
④ Save by Front Panel Key No. 1 Button or F1 Button on Remote Controller.

⑤ For Start SWING Mode, Press Front Panel Key No.2 or F2 Button on Remote Controller.

⑥ It support at D-MAX only.

Tip • All ability work by camera is supported each protocol.

5. System Power OFF



POWER

• Press Power Button to System Off

• Input Password and Press Enter to Shutdown System

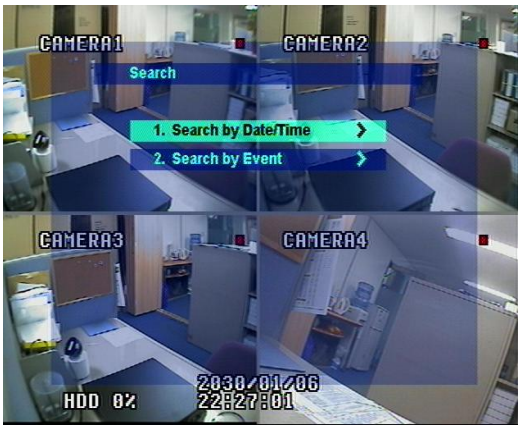
Tip

• System Log-On Possible ID : ‘Administrator’, ‘Manager’, ‘Operator’

Administrator: All Function Access (System On, Shutdown, Setup, Search)
Manager: System On and Search
Operator: System On

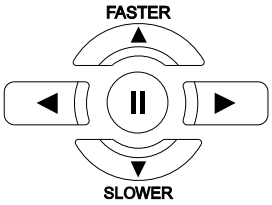
• SEARCH

⊙ Go to Search Mode



Search Recorded Data

SEARCH • Press Search Button and Log-In Administrator or Manager



• Use Direction Key to Move Menu

ENTER ▶ • To Open Each Menu Press Enter or Press Play Button

RETURN • Return to Previous.
(Move to Previous Menu or Exit Search Mode and Return to Watch Mode)

1. Search by Date/Time

- Possible to Search Recorded Date & Time

① Move Cursor to Selected Date in Calendar
(Recorded Date & Time Indicated by Gray Color)

② Press Enter to Open Selected Date

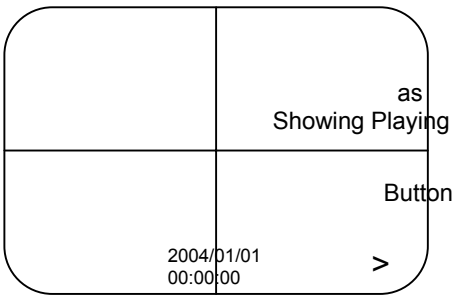
③ Recorded Time Appear to Under Side

④ Press Enter at Selected Time
(One Scale is 15 Minutes)

⑤ Menu Disappear and Output Recorded Video

• Showing Recorded Date & Time at Left-Upper Side Watch Mode.
Condition at Right-Under Side.

• Channel Selection Button in Watch Mode & SCR Mode are Apply the Same as Search Mode.
(But Menu, Search, and PTZ/Focus Buttons are Exception)



• SEARCH

• Control Playing Video

① : Basic Playing Mode (Normal Speed (1X) Forward Playing)

② : Normal Speed Backward Playing

③ : Pause Video

④ : Fast Forward (2 ~ 64 Speed)

⑤ : Fast Backward (2 ~ 64 Speed)

⑥ : Same Function as # ④,⑤

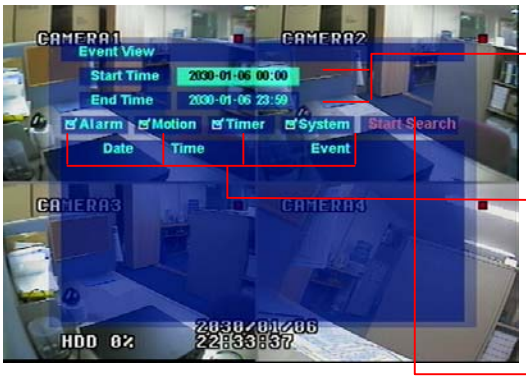
FASTER

SLOWER

※ Press Normal Forward/Backward Button in Pause, Move to Next/Previous Frame.

2. Search by Event

- Searching Video with Event Occurrence to Set up Period



Set up Period to Select Start Date & Finish Date for Searching Event

Alarm : Searching Alarm Event during the Selected Period

Motion : Searching Motion Detected Event during the Selected period .

Timer : Searching Schedule Change or Recording Setup Change Event

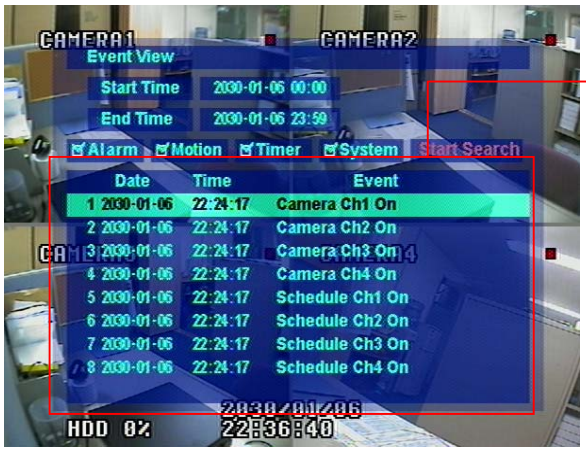
System : Searching Power On/Off Event (etc.) Concerned System Event

Event List Showing at Below Output Window

Tip

- Alarm, Motion, System can be Select plural by Check (V)-(ENTER)
- To Change Setup, Press Enter and Press Direction Key
  After Changing Setup, Press Enter to Exit.

• SEARCH


CAMERA1
CAMERA2
Event View
Start Time 2030-01-06 00:00
End Time 2030-01-06 23:59
Alarm Motion Timer System Start Search
Date Time Event
1 2030-01-06 22:24:17 Camera Ch1 On
2 2030-01-06 22:24:17 Camera Ch2 On
3 2030-01-06 22:24:17 Camera Ch3 On
4 2030-01-06 22:24:17 Camera Ch4 On
5 2030-01-06 22:24:17 Schedule Ch1 On
6 2030-01-06 22:24:17 Schedule Ch2 On
7 2030-01-06 22:24:17 Schedule Ch3 On
8 2030-01-06 22:24:17 Schedule Ch4 On
HDD 0%
22:36:40

• Date : Indicate Event Occurrence Order & Date

Time : Indicate Event Occurrence Time

Event : Indicate Event Contents & Camera No.

• Event Searching Method

① User can Search Event Using by Direction key

② Search Event to Press Enter at Selected Event from Event Occurrence Time

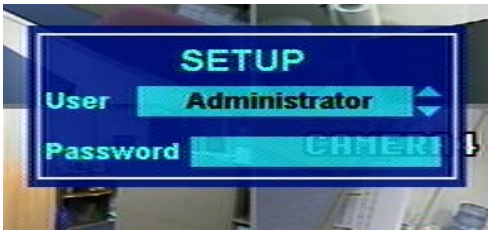
③ Control Video is the same way as Time Mode Control

Tip

• The Search by Event is not Base on Video, but Event Occurrence Time.

• MENU

⊙ Go to Menu



① Press Menu Button on Front Panel in Watch Mode

② Ask Password

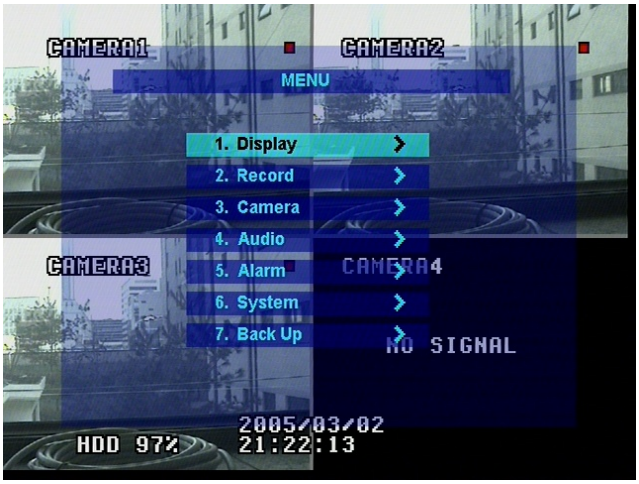
③ Input Password Using by Channel Select Button [1][2][3][4])

④ After Input Password Press Enter to See Menu

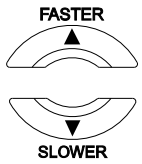
Tip

- Initial Administrator, Manager, Operator Password is 1234.
- Showing Password as *
- Changing Password (MENU->6.System->4.Password)
- Only Watch Mode can go to Menu.
  (Search & PTZ/Focus Mode can't move to Menu)

⊙ Menu Initial



• Every System Setup can Change or Maintain at Menu (6 Setup)

• 

Move to Menu Using by Up & Down Button

• ENTER ▶

To Open Detail Menu or to Apply Input

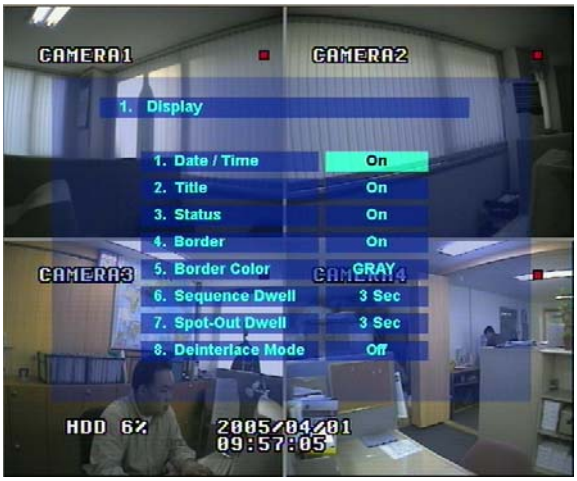
• RETURN

Return to Previous Menu or Return to Watch Mode

• MENU

1.Display

- Video Setup for Watch Mode

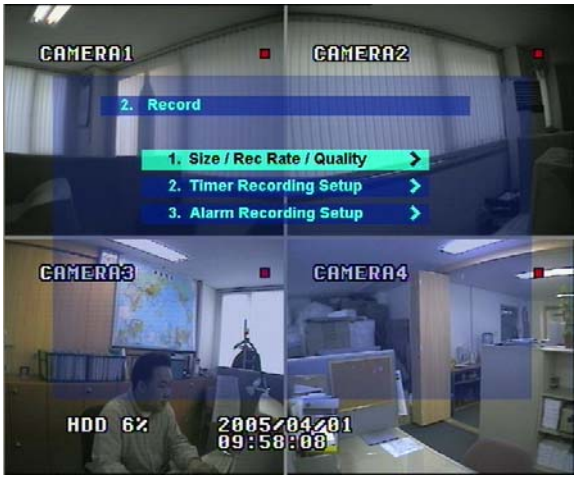


1. Date/Time : Date & Time Mark On/Off
2. Title : Camera Name On/Off
3. Status : Record Condition Mark On/Off
   (Recording: Red, Pre-recording : Green)
4. Border : Border Mark On/Off when 4CH Division Watch Mode
5. Border Color : Select Border Color
   (White, Blue, Red, Yellow, Green, Gray)
6. Sequence Dwell : Setup Rotation Cycle Time (1~60 Sec.) when 4CH Rotation Mode at Watch Mode
7. Spot-Out Dwell : Setup Spot-Out Time Cycle (1~60 Sec.) to Transmit Video
8. Deinterlace Mode : Remove Screen Spread on High Resolution , Low Frame
   ※Only Applying When D1(704X480)

2.Record

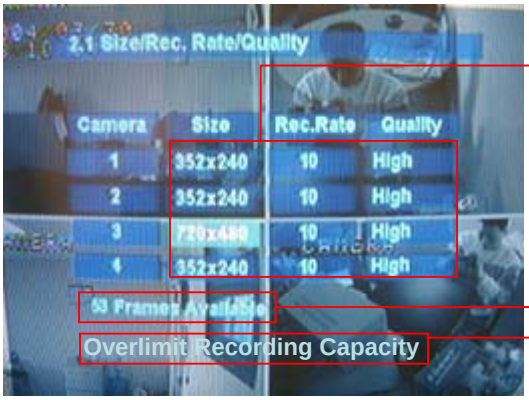
- Setup Image Record

2.1 Size/Rec.Rate/Quality – Setup Recording Resolution, Compression Rate, Quality



-Camera : Indicate Camera No. to Setup
-Size : Setup Resolution
-Rec.Rate : Setup Compression Rate
-Quality : Setup Quality of Recording Video

• MENU



• Size : 352*240, 704*240, 704*480
Rec.Rate : Possible to Select (1~30)
Quality : Possible to Select 3 levels (High, Low, Standard)

• Indicate Frame No. to Control Size & Rec. Rate

• If Frame Over, Showing a Message 'Overlimit Recording Capacity' and Impossible to Change Size & Rec. Rate

Tip

• When Setup Refer to Below NTSC, PAL Type
NTSC : 352*240(120fps), 704*240(60fps), 704*480(30fps)
PAL : 352*288(100fps), 704*288(50fps), 704*576(25fps)

• Possible to Setup Size & Rec. Rate, Quality per Each Channel

• When Applying Change Setup, Press Enter,
When Cancel Change Setup, Press Return.

2.2 Timer Recording Setup – Record On/Off or Time, Motion Setup

• Camera : Indicate Camera No. to Setup

• Record : Record On/Off

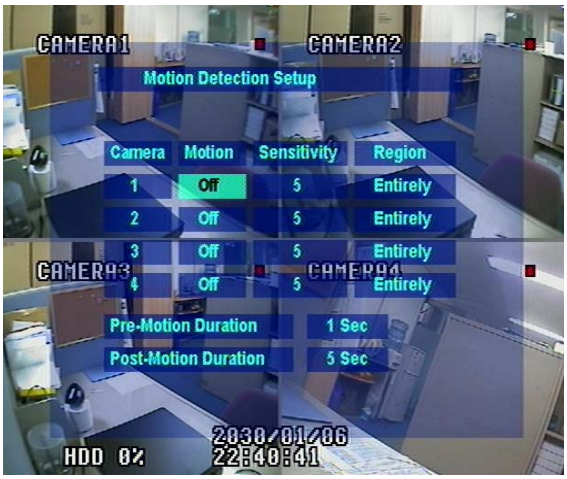
• Start : Setup Recording Start Time (0~24 hr)

• Stop : Setup Recording Finish Time (0~24 hr)

* Recording Time is between Start Time and Finish Time.

• Motion : Motion Detection Recording On/Off
(Record Setup must be 'On', when Motion Detection Recording.)

2.3 Motion Detection Setup – Motion Detection Area & Sensitivity



• Camera : Indicate Camera No. to Setup

• Sensitivity : Control Sensitivity (1~100)
Large No. is More Sensitive.

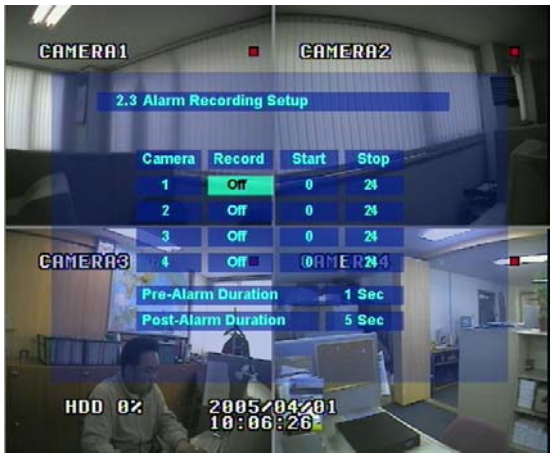
• Region : Setup Motion Detect Range
Entirely – Setup Entire Screen
Partially – Setup Partial Screen

• When Choose Region as Partially, Move to Partial Range Setup. Press Enter After Partial Range Setup to Finish Region Setup.

• Pre-Motion Duration : Setup Pre-Motion Duration Time. (1~5 sec)

• Post-Motion Duration : Setup Motion Detect Recording Time after Motion Detected (5sec~3min)

2.4 Alarm Recording Setup – Recording Setup for Alarm Activated



• Camera : Indicate Camera No. to Setup

• Record : Setup Record On/Off when Alarm Activated

• Start : Setup Alarm Recording Start Time (0~24 hr)

• Stop : Setup Alarm Recording Finish Time (0~24 hr)

• Pre-Alarm Duration : When Alarm Recording, Setup Start Recording Time before Alarm Activate (1~5sec)

• Post-Alarm Duration : Setup Alarm Recording Time after Alarm Activate (5sec~3min)

Tip

• Motion Setup Work by Time Schedule and Alarm Schedule Work Independently.

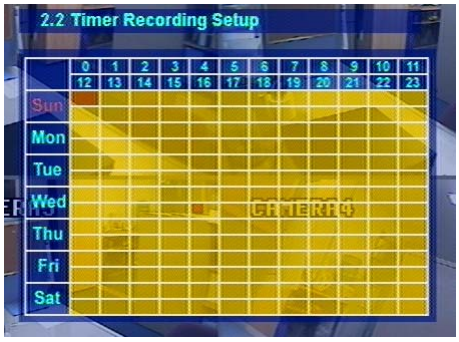
• MENU

⊙ Time Recording Weekly Setup

①

Weekly mode Setup at Record Setup

②



Scheduled Region Indicated Yellow

③

After 'Deselect' Schedule, Activated Region by Press 'ENTER' and Select Date & Time to Move Cursor

④

After Selecting Region and Press 'ENTER' Again to Finish Schedule Setup (Red)

⑤

Setup Date & Time Schedule in the Same Way.
After Finishing Schedule Setup,
Press 'Return' for Save & Exit

⑥

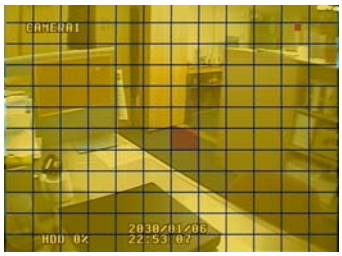
- Select All : Entire Region Select
- Deselect All : Cancel Region
- Save&Exit : Save Changing Setup & Exit
- Cancel : Cancel Changing Setup & Exit

• MENU

⊙ Partial Motion Region Setup

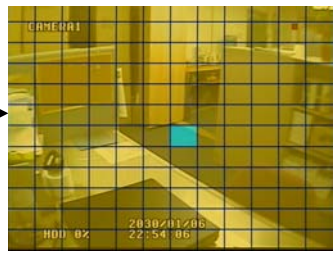
:Non-Activate Move Cursor ctivate Partial Setup Cursor ial Setup Finish Cursor :N ctivated Region

①



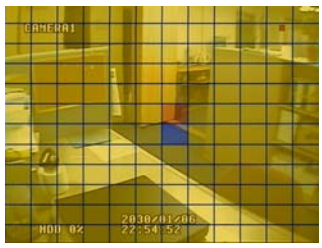
Region Initial View

②



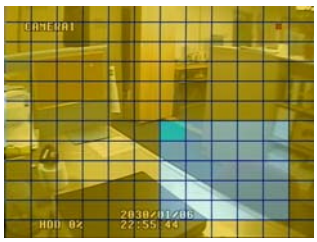
Move Cursor by Direction Key and Press Enter at Selected Region

③



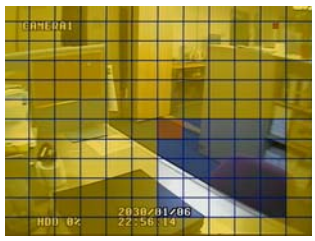
Press Enter again to see Region as a Blue Color and Setup Non-Activate Region

④



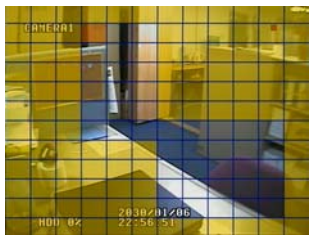
When Select Multi Region, Using Direction Key in ② to Expand Non-Activate Region

⑤



Press Enter to Select Multi Activate Region

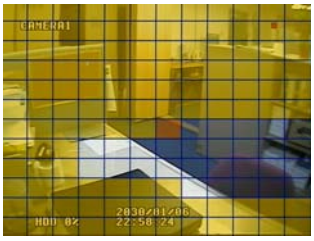
⑥



Non-

Same Method as ④⑤, Possible to Expand Non-Activated Region

⑦



For Reducing Partial Region, Cancel Non-Activate Region in Same Way as ④⑤

⑧

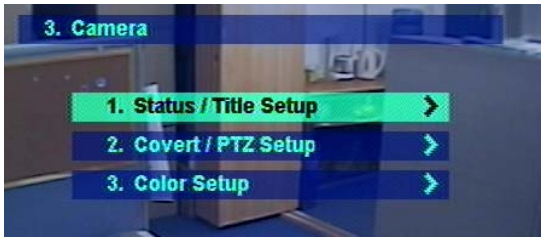
When Finishing Partial Region Setup, Press Enter to Save & Exit

- Select All : Select Entire Region
- Deselect All : Cancel Region Setup
- Save&Exit : Save the Changes & Exit
- Cancel : Cancel Change Setup & Exit

3.Camera

- Setup Camera

3.1 Status/Title Setup – Camera Connection Status & Camera Name Setup

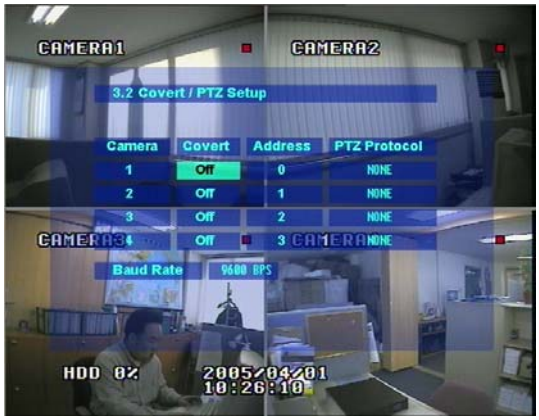


- Camera : Indicate Camera No. to Setup
- Status : Indicate Camera Status
  (Connected/Disconnected)
- Title : Setup Camera Name to Show Left-Upper Side

Tip

- Title Input Method

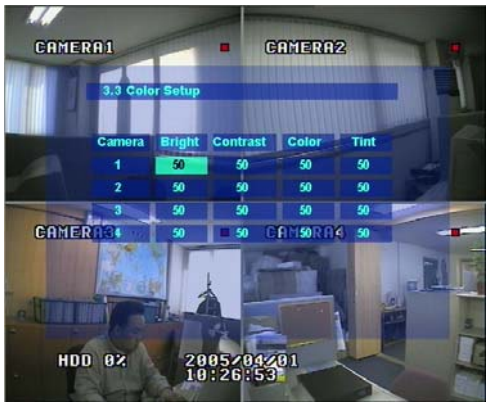
Using Direction Key, Up & Down Keys for Alphabet A~Z, Numerical No. 0~9
Left-Right Keys for Move to another Letter.



- Camera : Indicate Camera No. to Setup
- Covert : Setup Covert On/Off
  *What's Covert?
  When Covert On Watch Mode, Display Video is Hidden, but Recording is On.
- PTZ Address : Select PTZ Camera Address
- PTZ Protocol : Select Kind of PTZ Camera
- Baud Rate : Setup PTZ Communication Speed
  (2400, 4800, 9600 BPS)

※PTZ Supplied Protocol :
Samsung(MRX-1000), Samsung(SCC641),Honeywell(SD1) Honeywell((GMC),Lilin(Fastdome), Fastrax(Ⅱ), GC(655H), D-MAX, Sunin DSC-230, Scan Dome-Ⅱ, Vicon, Sensormatic,Panasonic(WV-CS850), Panasonic(WV-CSR604), Kalatel(KTD-312), PELCO-D, PELCO-P,Dynacolor(D7722), Honeywell(HRX-2000), HD600

3.3 Color Setup – Control Video Color



- Camera : Indicate Camera No. to Setup
- Bright : Control Monitor Bright
- Contrast : Control Monitor Contrast
- Color : Control Monitor Color
- Tint : Control Monitor Tint

  * All Setup Possible to Control 0~100

4.Audio

- Setup Audio

4.1 Audio Recording Setup – Audio In Setup

- Camera : Indicate Camera No. for Setup
- Audio Rec. : Setup Recording On/Off from External Audio In Terminal
- Audio Ch. : Setup Audio In Terminal Channel & Audio Output Camera

Tip

- User can Listen Saved Audio with Saved Video
- Audio Check in Search is Possible Only Normal Speed (1X) Forward Playing at 1CH Mode (Audio Recorded Channel)

4.2 Live Audio Setup – Audio Out Setup

• Live Audio : Audio Output ON/OFF
Live Audio Output from Audio In Terminal

• Monitoring Ch. : Select Channel for Audio Output
Nr. 1~4 Audio In

• Network Audio

① Enter '4.Audio -> 4.2 Live Audio Setup' at the Menu.

② Select 'One-way' or 'Two-way' at the Network Audio.

③ One Way : Transfer Audio from DVR to Remote Client.
Remote Client Possible to Receive Audio with Video.

④ Two Way : Communicate Audio between DVR and Remote Client.
Remote Client Possible to Receive & Send Audio to DVR Server.

⑤ Network Audio Possible to Operate even Live Audio Off.

5.Alarm

- Setup Alarm & Relay

5.1 Alarm Input Setup – Alarm Sensor Setup

• Alarm : Indicate Alarm Input Terminal No.

• Status : Setup Alarm Sensor Connection Status
(Connected/Disconnected)

• Camera : Input Camera No.1~4 to Connect Alarm

• Type : Setup Alarm Sensor N/Open, N/Close Type

Tip

• Generally Alarm Sensor can be Divided Two Types.

Normal Open Type is Open Sensor Electrically and Reacted when Signal is Connected.

Normal Close Type is Close Sensor Electrically and Reacted when Signal is Disconnected.

5.2 Relay Output Setup – Alarm Relay Setup

- Alarm : Indicate Alarm Input Terminal No.
- Relay Out : Setup Relay Connect with Alarm Sensor
- Mode : Setup Reacted Relay as Latched/Transparent Mode
- Duration : Setup Reacted Relay Time (5sec~5min or Until key-in)
- Relay Type : Setup Relay Type N/Open or N/Close

Tip

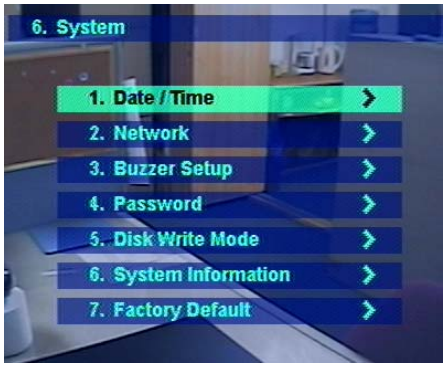
- Latched/Transparent

  Latched – When Sensor Alarm Activated, Relay Reacted in Setup Duration
  Transparent – Relay Reacted Temporary During Sensor Alarm Activate

6.System

- Basic Environment Setup

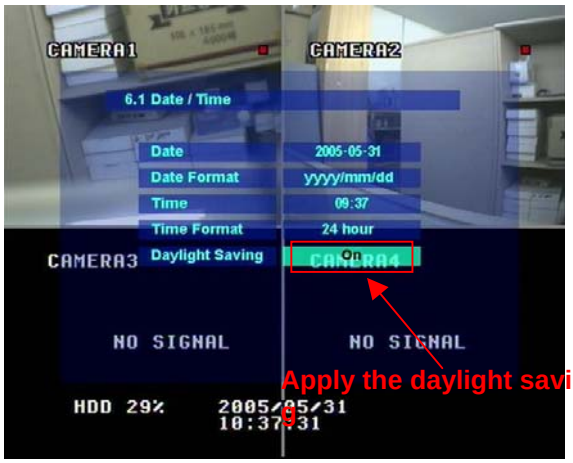
6.1 Date/Time – Date & Time Setup



- Date : Setup Present Date (YYYY-MM-DD).
  (If Time Setup to Past Date, Ask Delete Data for the Past Date.
  NO->Date/Time No Change, YES->After Delete Past Data and Change Date/Time)
- Date Format : Select Date Output Type (Ex: 2004-00-00, 2004/00/00)
- Time : Setup Present Time
- Time Format : Setup Time Type as 12 Hour Base or 24 Hour Base

• MENU

• Daylight Saving : Summer Time Applying Status



- Never change the real time. Only apply the daylight saving “ON”

  Please apply the daylight saving at the DVR and PC certainly.

  If not apply the daylight saving at the PC, The daylight saving is not applied at the RemoteAgent.

• MENU

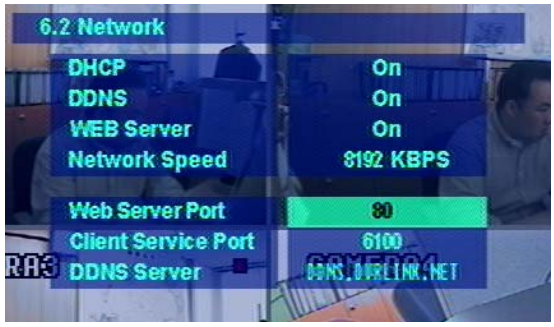
6.2 Network – Setup TCP/IP

- IP Address : Input IP Address
- Gateway : Input Gateway IP for Internet Server
- Subnet Mask : Input Subnet Mask IP
- Network Speed : Setup Network Speed
  (Network Speed from System, Depend on Network Status)

※ If Change Network Setup, New Change Apply
when after Rebooting.

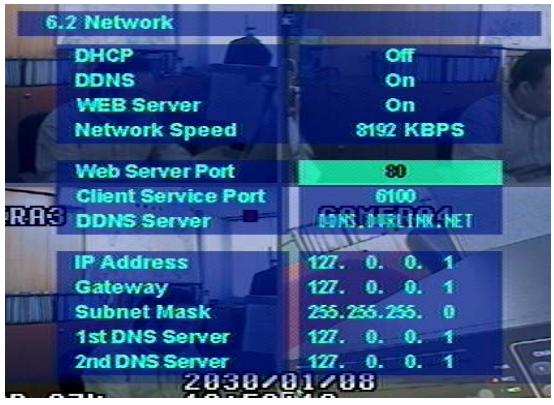
- Press the NEXT button and progress the step.
- Don't change the DDNS name because it is fixed the domain name.

<DHCP ON, DDNS OFF>



<DHCP ON, DDNS ON>

<DHCP OFF, DDNS OFF>



<DHCP OFF, DDNS ON>

※ If your network connect at the router, please must work the port forwarding. Otherwise you can't receive the service well.
When you connect by the web ,please 80 port must be work port forwarding for DVR.
When you connect by the RemoteAgent Program ,please 6100 port(User can change it) must be work port forwarding for DVR.
If you want to know more, please ask to the network manager or refer the router manual.

• MENU

DHCP

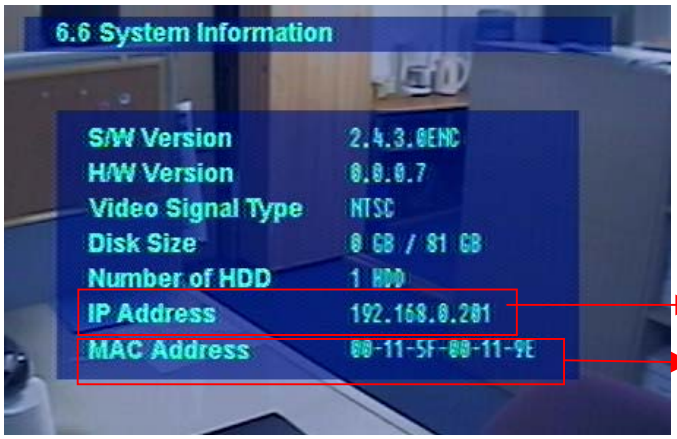
① Enter to '6.System -> 6.2 Network' on the Menu.
② Setup DHCP On/Off.
③ DHCP Off : User Input IP Address by Himself.
④ DHCP On : After DHCP On, Reboot the System.
⑤ Can see the setup IP automatically at the system information.

※ DHCP (Dynamic Host Configuration Protocol) : Indicate IP Address for the DVR Automatically.

DDNS

DDNS(Dynamic DNS): You can connect the DVR by the fixed domain name(ex.00115f000001.dvrlink.net) at client or Web without entering the IP address.
1. Enter to '6.System -> 6.2 Network' on the menu.
2. Setup DHCP On or Enter the IP address.
3. Setup DDNS ON and reboot.
4. Enter to '6.System -> 6.6 System information'on the menu.
5. Confirm the MAC address.
6. The domain name is "MAC address.dvrlink.net".
   EX) If Mac Address is 00-11-5f-00-b5-a7, the domain name is "00115f00b5a7.dvrlink.net"
7. If you connect by "00115f00b5a7.dvrlink.net" at client program or Web, you can connect the DVR.

※ 1. If your network connect at the router, please must port forwarding.
   2. Please, you must enter the exact IP address, DNS Server, Gateway, Subnet Mask.
   3. Please you must connect the DVR at External Network.
If you don't follow 1,2,3 , you can't receive the DDNS service.



※ If you use the DDNS, there is no necessity to enter again the IP Address every connection..

Possible to Confirm IP Address for the DVR at the System Information.

Fixed MAC address of the DVR

Webserver Port Change

Support the Webserver port's change by manually.

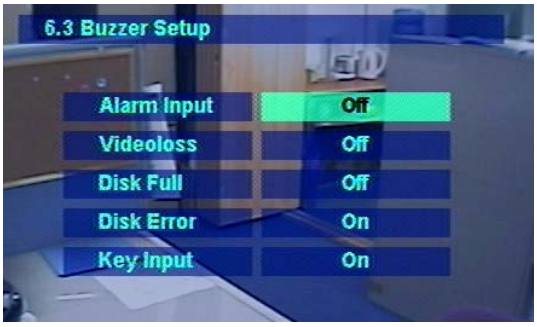
Basic port: 80

If you change the port, please write the port number after writing the address at the web.

Ex) If you change the port number by 8080, you have to connect as below.

http://192.168.0.40:8080

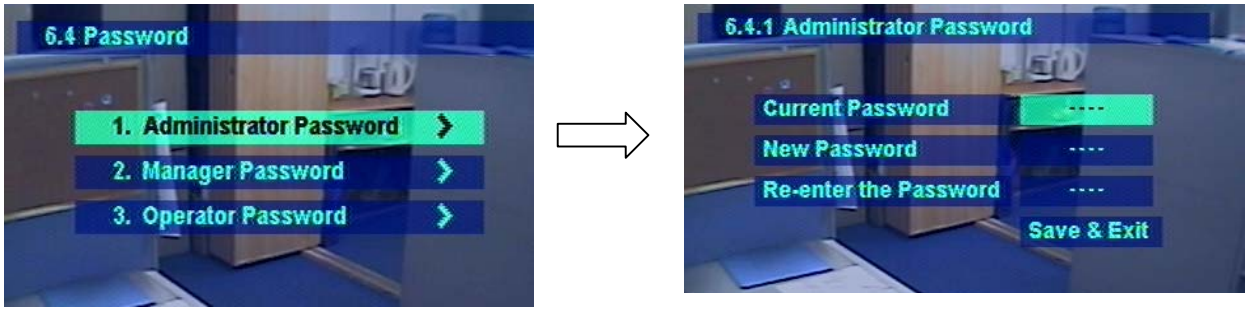
6.3 Buzzer Setup – Setup Key Sound to Speaker



- Alarm Input : Alarm On/Off when Alarm Activate
- Videoloss : Alarm On/Off when Camera Disconnected
- Disk Full : Alarm On/Off when Hard Disk Full
- Disk Error : Alarm On when Hard Disk Error
- Key Input : Setup Key Input Sound

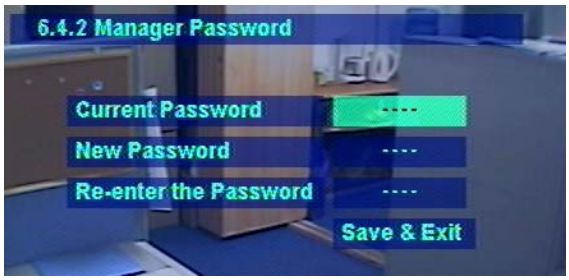
6.4 Password – Setup Password

6.4.1 Administrator Password – Setup Menu & System On/Off



- Current Password : Input Current Password (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

6.4.2 Manager Password – Possible System On & Search, But Can't Change Setup

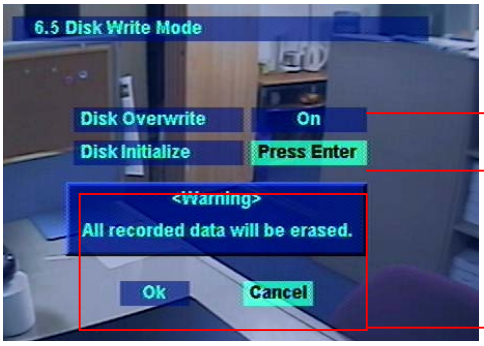


- Current Password : Input Current Password
  (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

6.4.3 Operator Password – Possible System On, But Can't Change Setup and Search

- Current Password : Input Current Password
  (Initial Password : 1234)
- New Password : Input New Password
- Re-enter the Password : Re-Confirm New Password
- Save&Exit : Applying New Password

6.5 Disk Write Mode – Setup Hard Disk



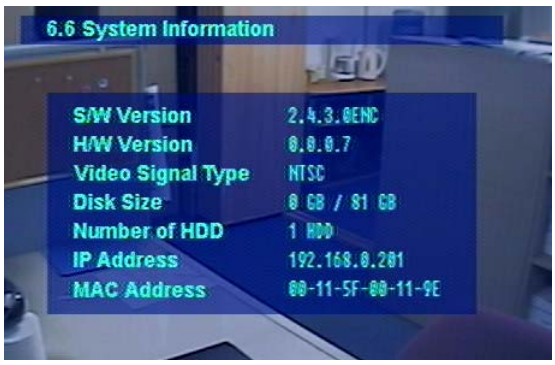
• Disk Overwrite : Select Overwrite Permission when Hard Disk Full
O N: Overwrite Hard Disk from Oldest Data
OFF: When Hard Disk Full, Stop Recording and Buzzer Activate (Refer to Menu 6.3 Buzzer Setup)

• Disk Initialize Now : Refreshment Hard Disk All Recorded Data Deleted

• When Select Disk Initialize, Alarm Message Showing. Select 'Yes' to Start Disk Initialize.

※When Change Disk Overwrite ON/OFF Mode, the Change will be Applied from Changing Time.
For Example When Overwrite On Mode & HDD Full, Change to Overwrite Off Mode and then it will be Applied New Data Fill HDD Full after Changing Time.

6.6 System Information – Product information (Version etc)

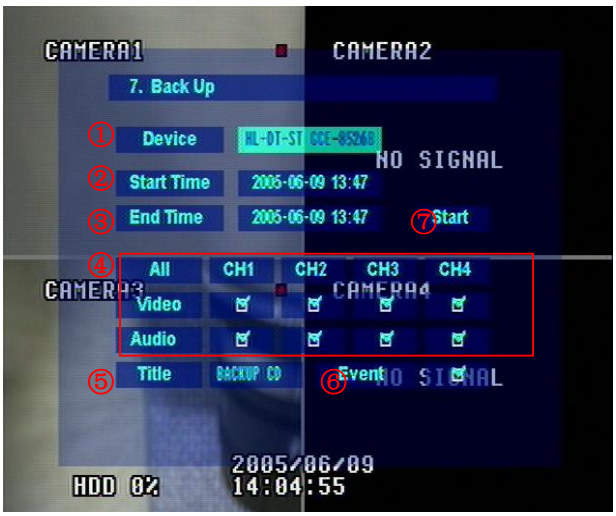


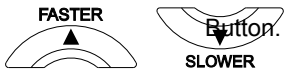
• S/W Version : Indicate S/W Version of the Product
• H/W Version : Indicate H/W Version of the Product
• Video Signal Type : Indicate Video Signal Type
• Disk Size : Indicate Hard Disk Capacity
• Number of HDD : Indicate Present Installed HDD No.
• IP Address
• MAC Address

6.7 Factory Default – Every Setup Initializing

• Press Enter to Start Initialize
• Showing Warning Message and Press OK to Run Initialize
• If do Factory Default, Every Setup is Initialized, but Saving Image is Not Erase.

7. CD and USB Backup



① Device : Indicate CD-RW Model and USB MEMORY Model Automatically.
If you use the CD-RW and USB memory (or USB HDD) together,
it can choose the CD-RW and USB by 

Button.

② Start Time : Select Start Backup Time.

③ End Time : Select End Backup Time.

④ Channel & Video/Audio Selection : Select Channel, Video, & Audio for Backup.

⑤ Title : Change the Title of Backup.

⑥ Event : Select Attach Event Text File in Backup.

⑦ Start : Start Backup.

Tip

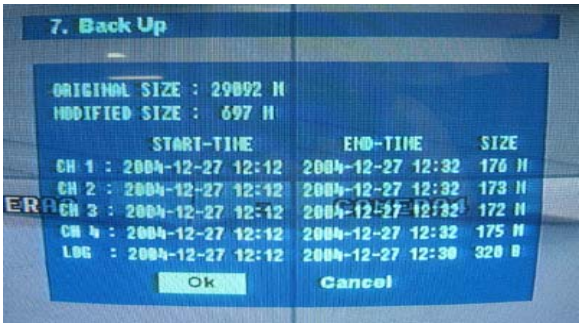
- Compatible USB memory stick Models are LG(Royal,mobile,mirror),IMATION(iflash) MEMORIVE(PRO+), Freetech I-DISK TINY, Kingmax MaxDrive, Twinmos M1 and Compatible USB HDD is CUTIE(FHD-254).
- Compatible CD Writer Models are LG(GCE-8526B,GCE-8527B), SAMSUNG(SW-252F, TS-H292A, SH-522C),ASUS(CRW-5232AS),GIGABYTE(GO-R5232B)
- Inside of Backup CD,USB Including Necessary Codec for Playback (IMM4 Install File).
- In case of RW Possible CD, Please Delete Previous Data on PC for Recording Again.

- In Case of Non-Proper CD or Undeleted RW-CD, Error Message will be Appeared.

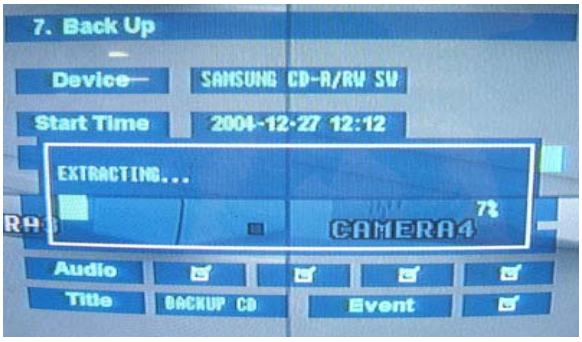
• MENU

7.1 CD Backup Process

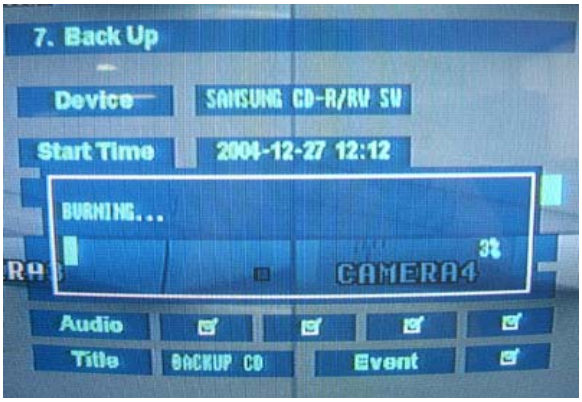
1. Choose the CD-RW at the DEVICE.
2. Choose the start time and end time.
3. Choose the each channel Video/Audio. If you want the Event BACK UP, Choose the event.
4. Choose the BACK UP title .(Default: “BACKUP CD”)
5. Backup by Start button.



6. By User Selection Backup Time Calculation, the Capacity of CD will be Arranged.



7. Extract Data for CD Backup.
8. Create the AVI format at the data in store.



9. Burning CD.

Tip

- During CD Burning, Other Function can NOT Operated.
- During CD Burning, Record Data & Remote Client Connection are Possible.

The USB memory backup process is the same as CD backup process!

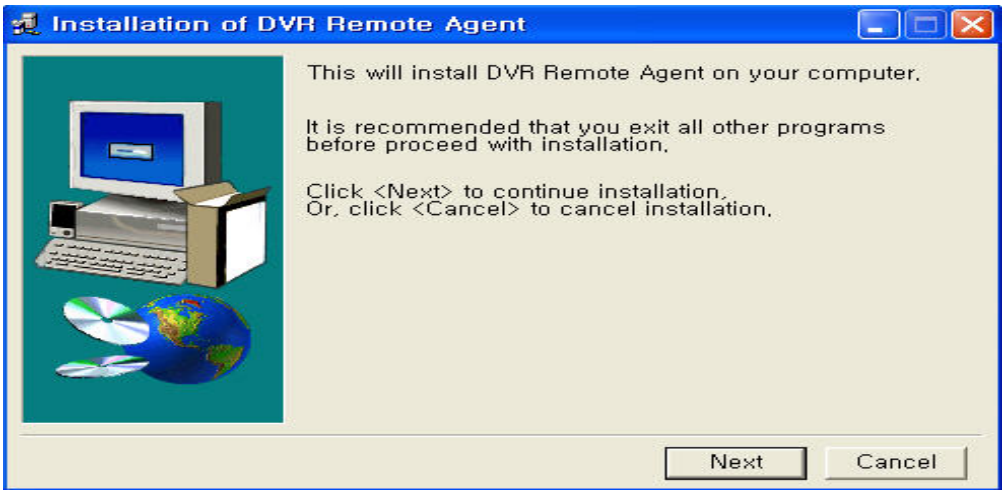
• CLIENT

• System Requirement

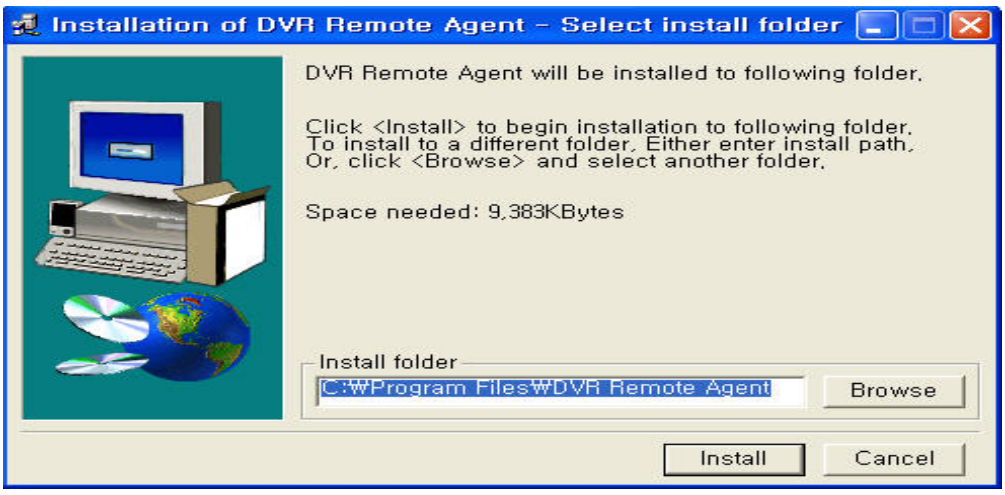
① Main Board (CPU): Celeron700(Minimum), Pentium 4 recommend
② OS: Higher than Windows 98,DirectX 7.0A
③ Memory (RAM): More than 128 M
④ VGA: Overlay YV12 Format Graphic Card
All Radeon, Nvidia (Higher than Geforce) Matrox (Higher than G450) Compatible Video Card
※IMM4 Codec (When Playback Backup File)

• DVR Remote Agent Install

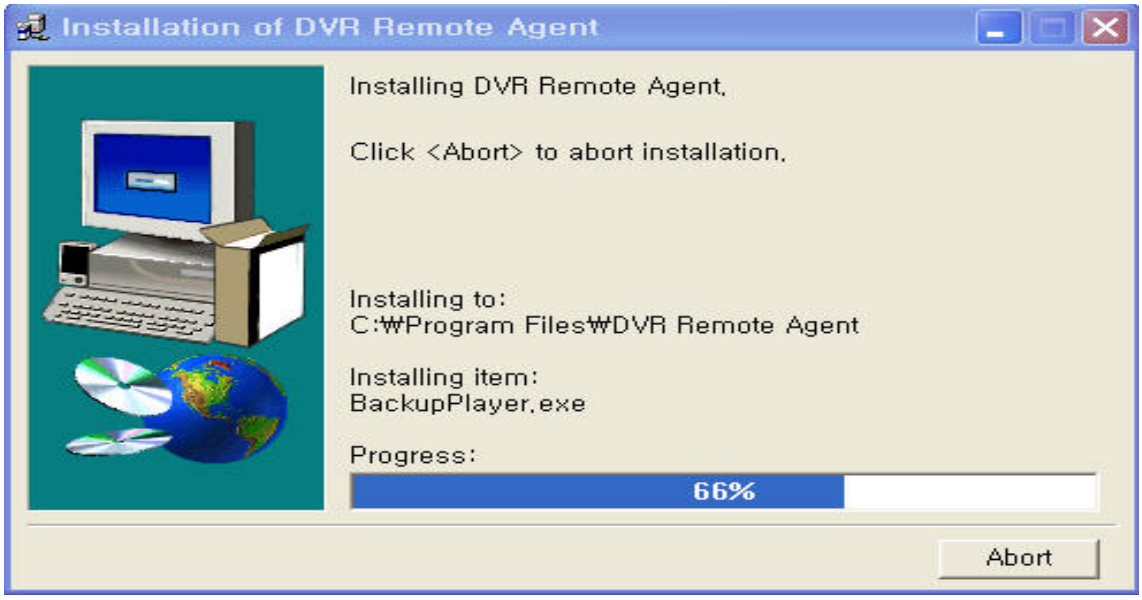
① Open CD-ROM Drive and Run DvrRemoteAgentSetup.exe and then Appear Setup Menu


Installation of DVR Remote Agent
This will install DVR Remote Agent on your computer.
It is recommended that you exit all other programs before proceed with installation.
Click <Next> to continue installation.
Or, click <Cancel> to cancel installation.
Next
Cancel

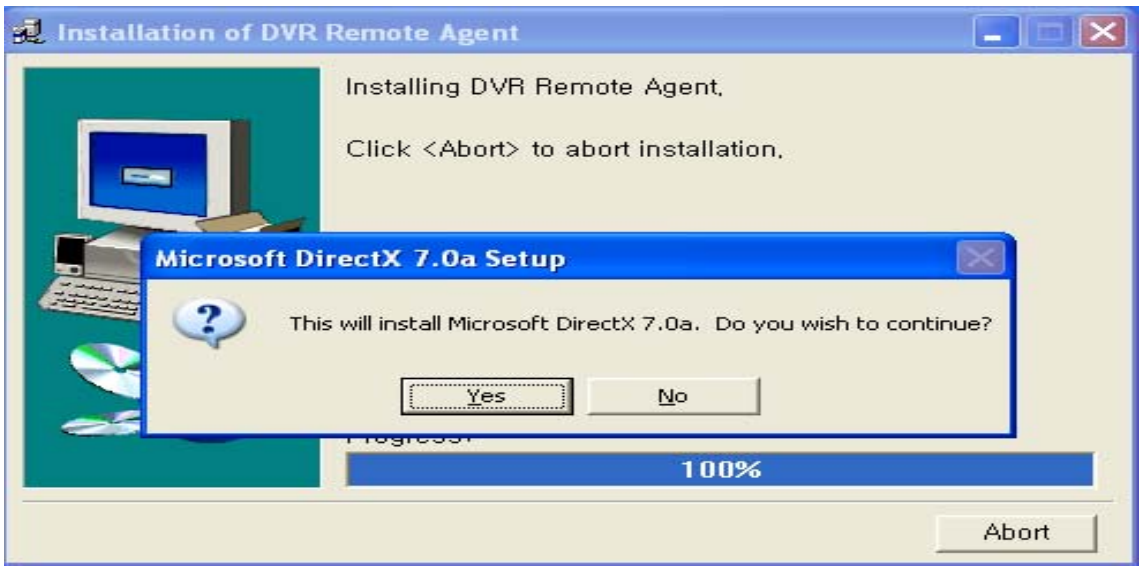
② Close All Running Software and Press Next to Move Next Step


Installation of DVR Remote Agent - Select install folder
DVR Remote Agent will be installed to following folder.
Click <Install> to begin installation to following folder.
To install to a different folder, Either enter install path,
Or, click <Browse> and select another folder.
Space needed: 9,383KBytes
Install folder
C:₩Program Files₩DVR Remote Agent
Browse
Install
Cancel

③ Ask designate Folder to Install DvrRemoteAgent,
Recommend Basic setup c:\program files:\DvrRemote Agent.
Click Next.



④ Showing Progress of Copy of Files



⑤ Appear DirectX 7.0a Install Menu. If DirectX Version Lower than 7.0a, Press Yes to Start Install

• CLIENT

⑥ When Finishing Installation, System must be Restarted. Click 'Yes'

⑦ Finish DvrRemoteAgent Program Installation

• CLIENT

1. Monitoring Mode

1.1 Function Introduction

① Main Screen Image : Showing Present Surveillance Camera Image

② Camera Selection Button : Indicate Connected Camera No. & Select Image to Click Camera No.

③ Hidden/Exit : Hide DVR Client Window or Exit Program

④ Time Output : Showing Present Time & Date

⑤ SEARCH : Move to Search Mode to Play Video
SETUP : Move to Setup to Change Network Setup or Option

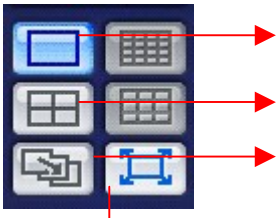
⑥ DVR Selection : Select I/D to Connect Server

⑦ Connect : Connect DVR
Disconnect : Disconnect from DVR

⑧ Screen Division Selection : Change Screen Division Mode
⑨ Save by AVI file : Transmission Live Image Save by AVI File
⑩ Color Adjustment : Adjust Color of Live Transmission Image
□ PTZ Control Button : Control Camera PTZ & Focus
□ Audio Button : Control Two Way Audio & Mute
□ Exit : Exit DVR Client

• CLIENT

1.2 Screen Division Selection



• 1*1 View : Showing One (1) Video which User Selected
(Selection Video by Camera Selection Button)

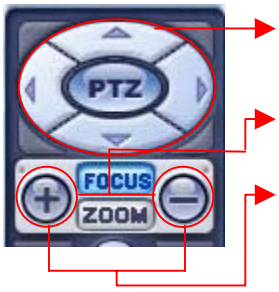
• 4*4 View : Quad Screen Division Mode

• Screen auto switching : One Large Screen Mode Showing One by One (1*1 View) Depend on User Selection Time (Not Work Screen Division Mode)

• Full Screen View : Present Video Move to Full Screen Mode
Mouse Double Click when Return Previous

*Mouse Double Click Make the Same Function as Full Screen.

1.3 P/T/Z Control



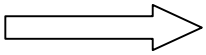
• P/T/Z Controller : Camera P/T/Z Control by Direction Keys

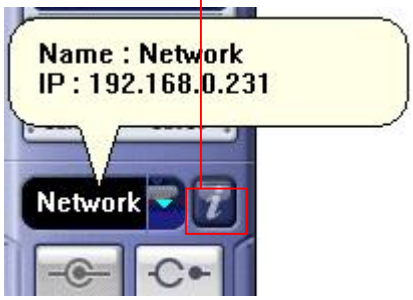
• FOCUS/ZOOM Select Button : Focus or Zoom Control by +,- Button

• +,- Control Button : Focus or Zoom Control

1.4 Selection Network I/D

Network Information Icon

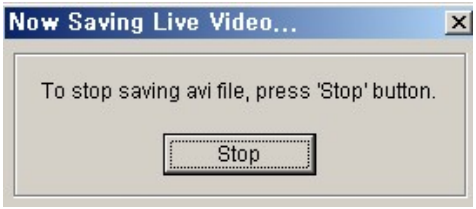




• Select I/D to Connect Server.
• I/D can be Add, Change, and Delete at Setup

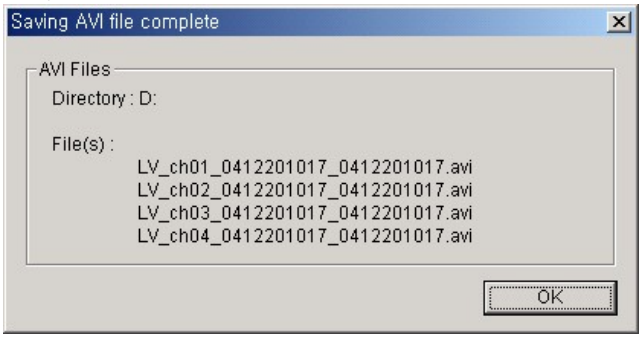
• Click Network Information Icon, to See a Popup Window for Connected Server I/D, IP, and Port Information.

1.5 AVI File Conversion



• Click AVI Conversion Button to Start AVI File Conversion.

• During AVI Conversion Showing a Message and before Click ‘Stop” Save AVI File continuously .

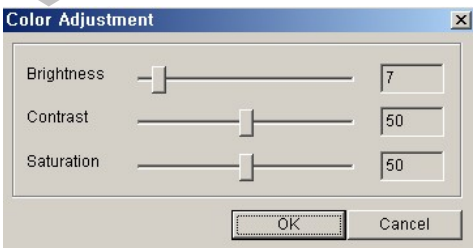


• ‘Press ‘Stop’ to Open Designate File Name & Saving Location, and Save AVI File.

• Saved AVI File can Open Ordinary Moving Picture Player or Backup Player.

• Moving Picture Player Codec Version Need Higher than Divx 5.1 & IMM4 Codec.

1.6 Color Adjustment

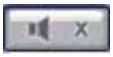


• Click Controller Possible to Control Color

• Change Brightness, Contrast, Saturation from 0 to 100

• Click OK to Finish Changing Setup

1.7 Audio



• Two Way Audio : During Press Mouse, Possible to Two-Way Communicate Between DVR Server & Remote Client.
(Transmission Remote Audio to DVR Server.)
* Only Possible when Connected Administrator ID.

• Mute : Mute Remote Audio Volume.

2.Search Mode

2.1 Function Introduction

① Search Screen : Playing Selected Video

② Search Bar : Search & Indicate Camera Recording Situation by Time Bar

③ LIVE : Return to Watch Mode
SETUP : Open Setup to Change Network Setup or Option

④ Screen Division Selection : Change Playing Screen Division Mode

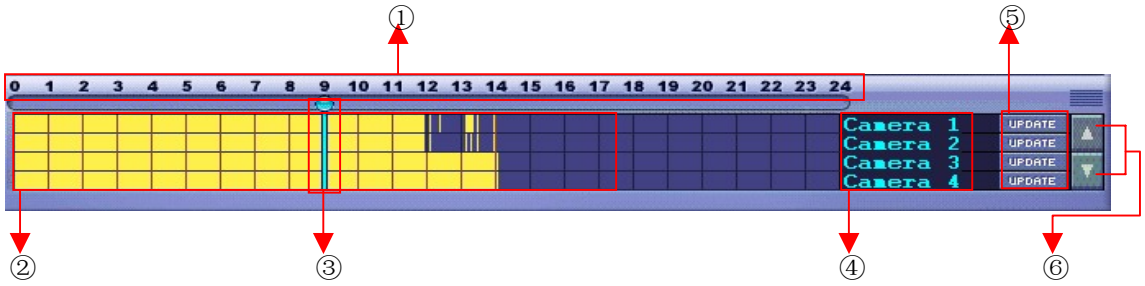
⑤ SEARCH Option : Backup Video or Search Event

⑥ Camera Selection Button : Select Camera at the 1*1 View

⑦ Quick Search : Find Image to Designate Date & Time

⑧ Search Controller : Control Playing Video

2.2 Search Method



① Indicate 0~24 Hour

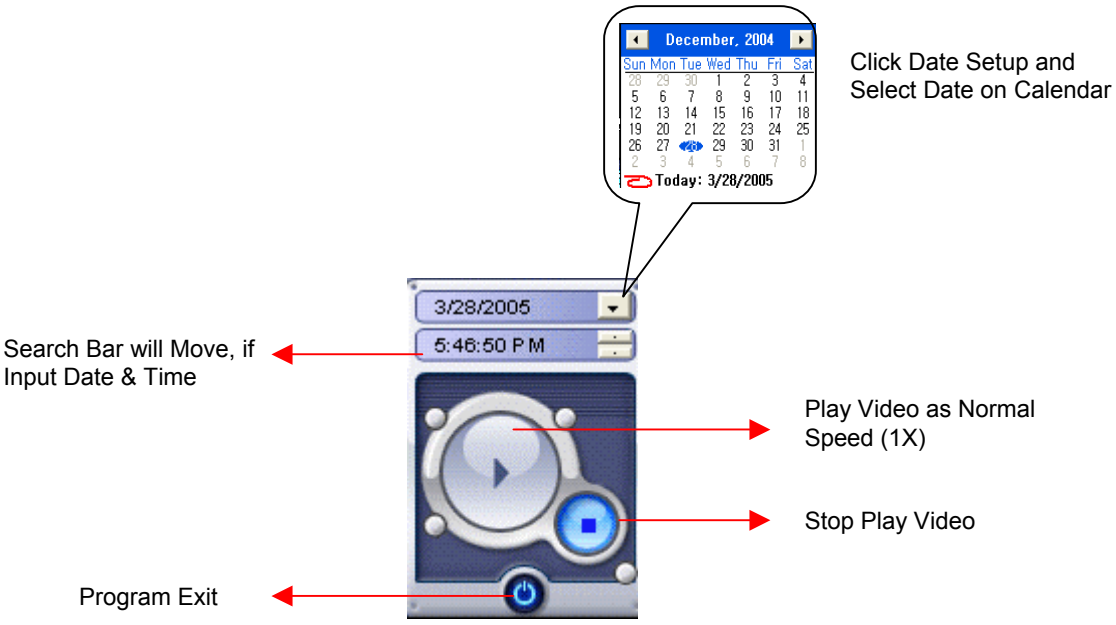
② Indicate Recording Situation (Blue : No Record, Yellow : Recorded Image at the Time)

③ Search Bar : Select Video to Drag Mouse Search Controller in Recorded Area

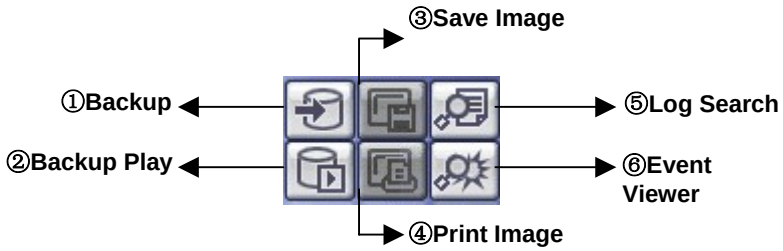
④ Indicate Camera Channel to Confirm Camera Recording Situation

⑤ Refreshment Recording Information Situation Window by Camera Channel

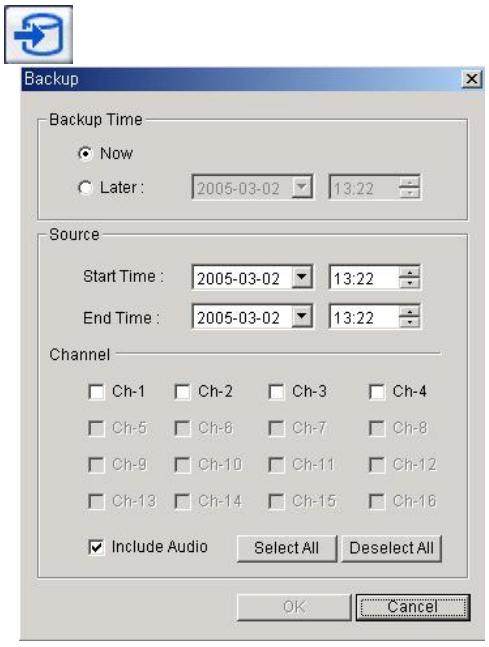
⑥ If Connected Channel is 5 or More, Another Channel will be Scroll.



2.3 SEARCH Option



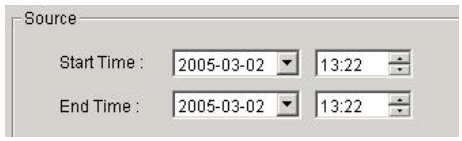
① **Backup** – Backup Image from Server to Remote PC



• Backup Time : Designate Backup Time (Now or Later)

• Designate Backup Date & Time when Later

• Source :



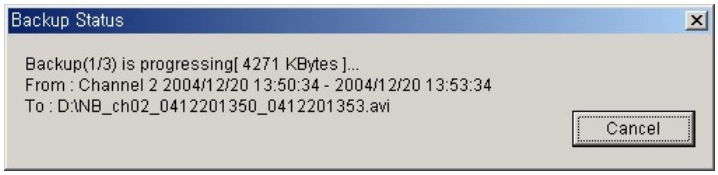
Designate Backup Image Data Length to Input Start Time & End Time.

• Channel : Check Camera Channel for Backup

• Include Audio : Check Audio Including when Backup

• Select All
Deselect All

• Press OK to Open Backup Status & Start Backup.


Backup Status
Backup(1/3) is progressing[4271 KBytes]...
From : Channel 2 2004/12/20 13:50:34 - 2004/12/20 13:53:34
To : D:\NB_ch02_0412201350_0412201353.avi
Cancel

• When Finish Backup, Back Status Window Disappear & Backup Data Save at Hard Disk Root Folder in Remote PC.

• CLIENT

② **Backup Play (DVR Player)** – Transfer to DVR Player

① Showing Image (Possible to Only 1*1View Mode)

② Backup File Open to Play First Video

Ex. : ch02_04131730_04131735.rec (Backup File for # 2 ch. Apr.13, 17H30M ~17H35M)

③ Indicate Present Playing Video Camera Channel No.

④ Indicate Present Time & Date and Possible to Search Time & Date

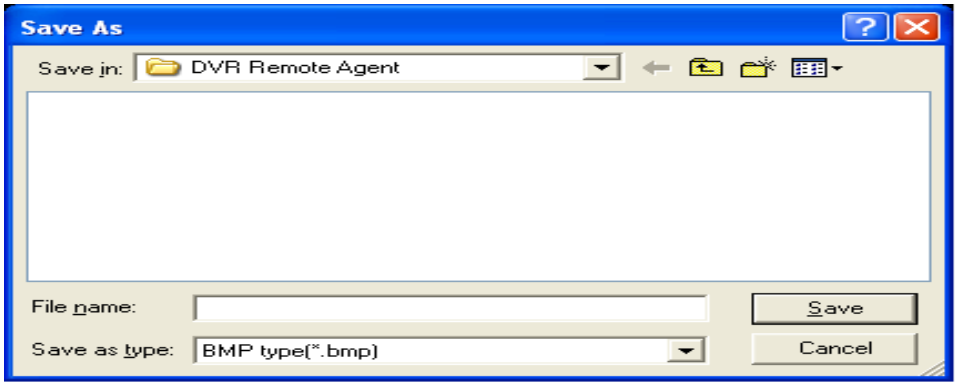
⑤ Search Controller, the Same Way of Previous Search

Tip

- Backup Play Setup in Search Mode is the Same as DVR Player, so it can be Run Independently without Running Remote Program.
- Backup Player & Ordinary Moving Picture Player Possible to Playback, Real Time AVI Backup File can Display as the Same Format.

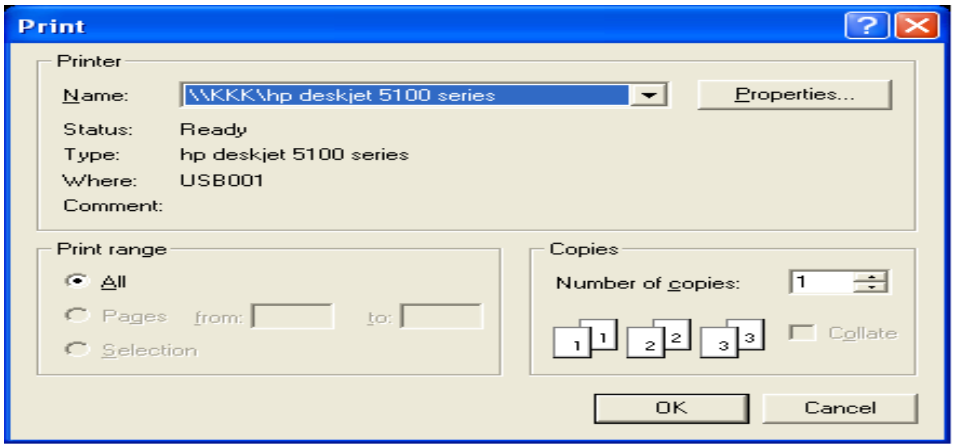
• CLIENT

③ **Save Image –** Capture Image & Saving Image at Hard Disk or Removable Disk



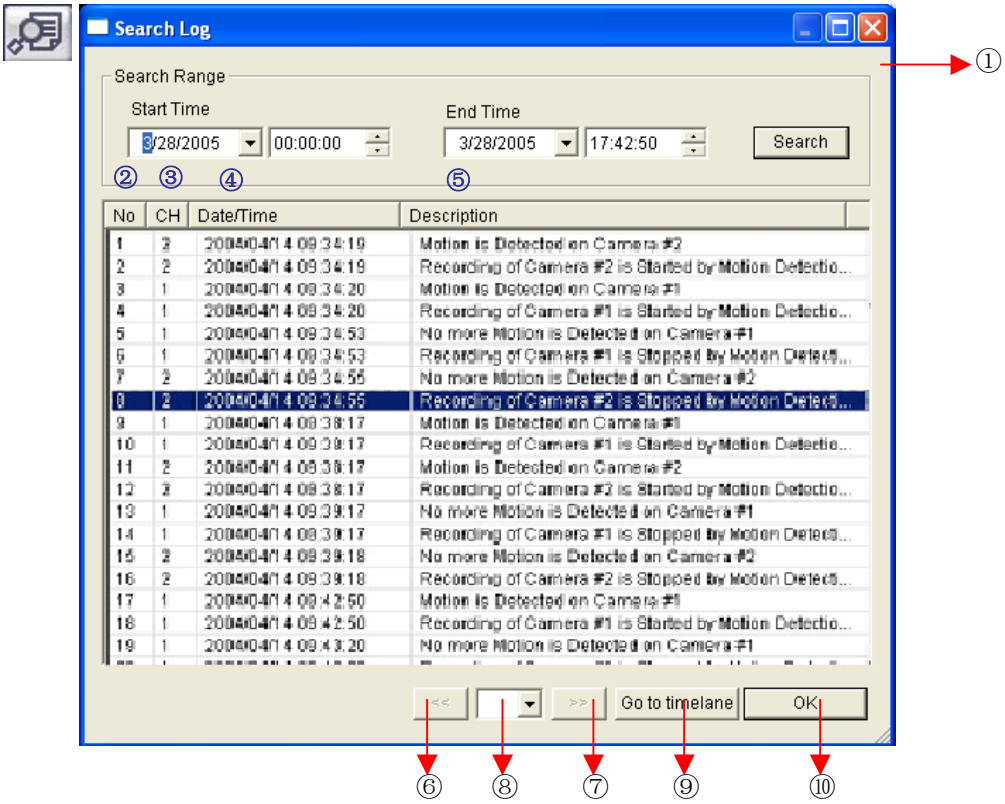
- Click 'Save Image' Icon During Playing Video
- Designate File name, File Type (JPG,BMP), and Location and Press Saving
- Conversion and Saving Image from Remote Viewer

③ **Print Image –** Present Image Capture and Print Out Image



- During Play Video, Click 'Print Image'
- After Selecting Printer, Start Image Printing
- Print Out Remote Viewer Image

③ **Log Search** – Find Video Centering around Event Log at DVR.



① Input Start Time and End Time at the Selected Date to Search Event
When Press Search Button, Event Output at the Below Window

② Indicate Event Log Order No. (Max Event Log No. of 1 Page is 100)

③ Indicate Event Occurred Camera No.

④ Indicate Event Occurred Time & Date

⑤ Indicate Event Detail Description

⑥ Move to Previous Page

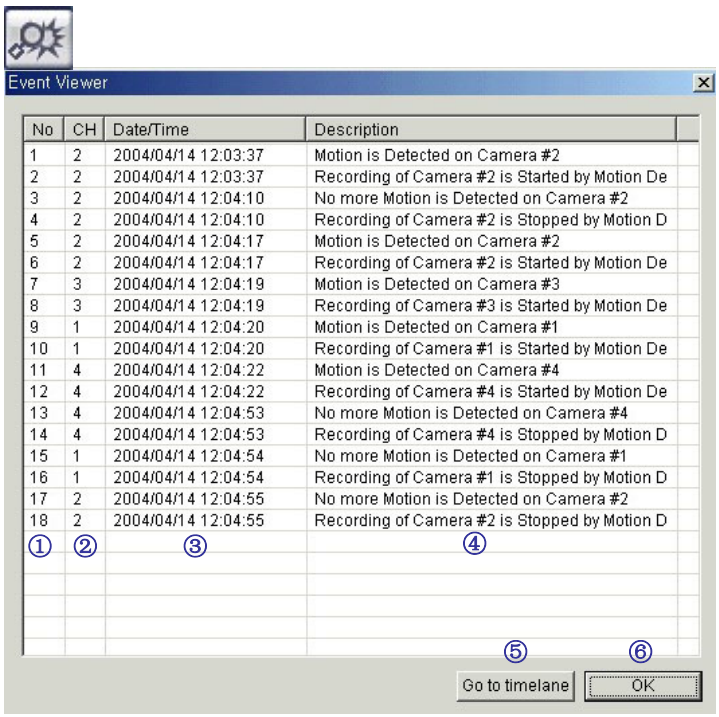
⑦ Move to Next Page

⑧ Move to User Select Page

⑨ After Select Event, Move Search Bar in Search Mode

⑩ Return to Search Main to Play Event Image

④ **Event Viewer** – Showing Present Event in Server & Find Image


Event Viewer
No
CH
Date/Time
Description
1 2 2004/04/14 12:03:37 Motion is Detected on Camera #2
2 2 2004/04/14 12:03:37 Recording of Camera #2 is Started by Motion De
3 2 2004/04/14 12:04:10 No more Motion is Detected on Camera #2
4 2 2004/04/14 12:04:10 Recording of Camera #2 is Stopped by Motion D
5 2 2004/04/14 12:04:17 Motion is Detected on Camera #2
6 2 2004/04/14 12:04:17 Recording of Camera #2 is Started by Motion De
7 3 2004/04/14 12:04:19 Motion is Detected on Camera #3
8 3 2004/04/14 12:04:19 Recording of Camera #3 is Started by Motion De
9 1 2004/04/14 12:04:20 Motion is Detected on Camera #1
10 1 2004/04/14 12:04:20 Recording of Camera #1 is Started by Motion De
11 4 2004/04/14 12:04:22 Motion is Detected on Camera #4
12 4 2004/04/14 12:04:22 Recording of Camera #4 is Started by Motion De
13 4 2004/04/14 12:04:53 No more Motion is Detected on Camera #4
14 4 2004/04/14 12:04:53 Recording of Camera #4 is Stopped by Motion D
15 1 2004/04/14 12:04:54 No more Motion is Detected on Camera #1
16 1 2004/04/14 12:04:54 Recording of Camera #1 is Stopped by Motion D
17 2 2004/04/14 12:04:55 No more Motion is Detected on Camera #2
18 2 2004/04/14 12:04:55 Recording of Camera #2 is Stopped by Motion D
① ② ③ ④
⑤ ⑥
Go to timelane
OK

① Indicate Event Occurred Order No.

② Indicate Event Occurred Camera No.

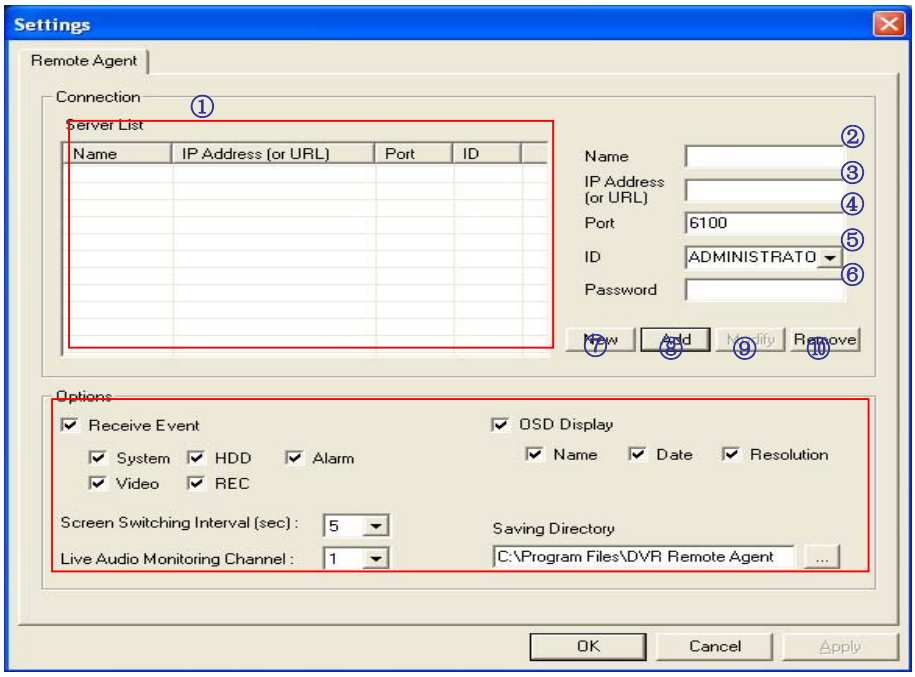
③ Indicate Event Occurred Time & Date

④ Indicate Event Detail Description

⑤ After Select Event, Move Search Bar in Search Mode

⑥ Return to Search Main to Play Selected Event Image

3. Setting



3.1 Connection ID Setup

① DVR Status : Indicate Present Saving DVR & DVR Information.

② Input Name to Add or Amend DVR.

③ Input DVR IP Address to Add or Amend.

④ Indicate Port No.

⑤ Input ID for Connecting DVR.

⑥ Input Password for Connecting DVR.

⑦ Click to Input New DVR Information.

⑧ After Input All DVR Information, Add DVR Information at DVR Status.

⑨ After Amend All DVR Information, Applying Change DVR Information.

⑩ Selected DVR Delete at DVR Status.

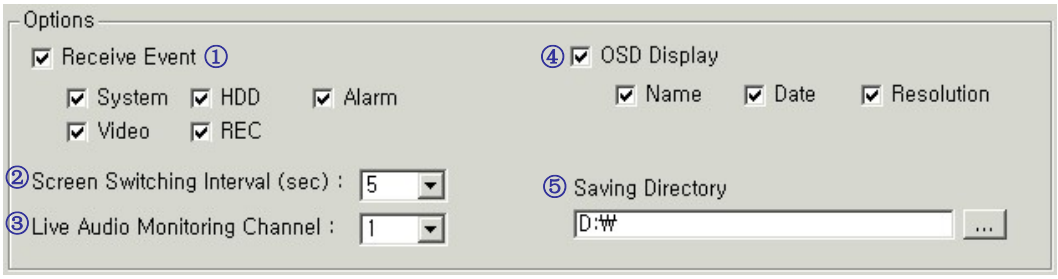
□ Option : Each Option Setup Change

□ System Setup : Setup DVR Server from Remote Client, Only Possible when Connected Administrator

Tip

- When Change DVR Setup at the Remote Client, DVR Server Setup must be Non-Activated.
- Administrator ID Max 1, Connectable No of People Max 4 (Including Manager, Operator, and Web-Client).

3.2 Option Setting



① Receive Event : Select Kinds of Event as Multiple. Remote Client Only Receive Selected Event. (System, HDD, Alarm, Video, REC)

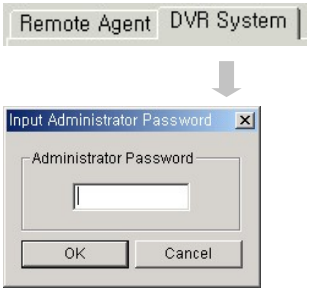
② Screen Switching Interval (sec) : During the Monitoring, Select Screen Rotation Interval Time (From 1 sec. to 300 sec.)

③ Live Audio Monitoring Channel : Select Channel for Listening Audio at Remote Among 4Ch Audio.

④ OSD Display : Select Screen Information.
(Name, Date, Resolution)

⑤ Saving Directory : Designate Remote PC Backup Image Saving Folder.

3.3 DVR Server Remote Setup

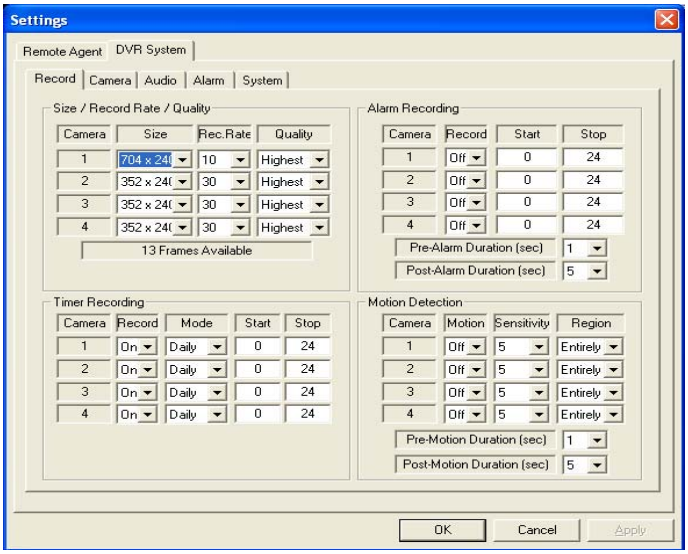


- Click DVR System Setup Tap, Password Input Window Open
  After Input Password, Setup Window Pop-up.
- DVR System Tap Indicated Only when Connect as Administrator.
- DVR System Setup Possible to Control Almost Every Setup at the Remote.
- When Activate Setup or Changing Setup at the DVR Server,
  It's Impossible to Change Setup at the Remote.
- During System Setup at the Remote, DVR Server Setup Start Make to Close Remote System Setup Automatically.

Tip

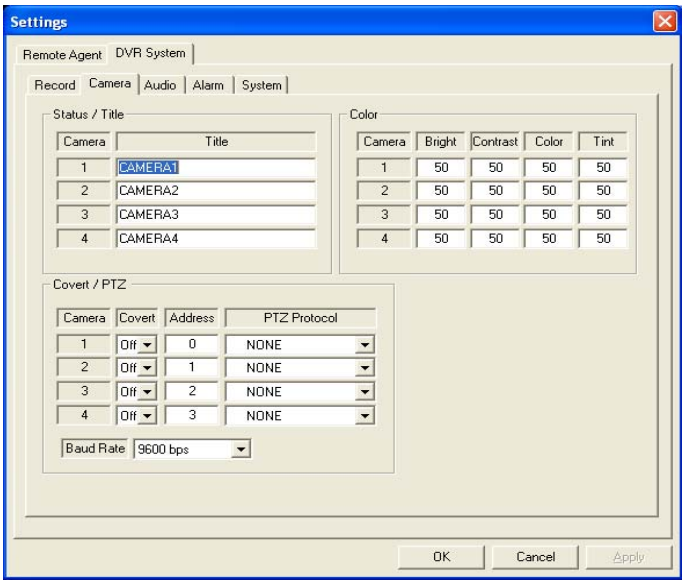
- Remote Connection ID Authority
  Administrator : All Authority for Remote & Possible to Change DVR System Setup
  Manager : All Authority for Remote, But Impossible to Change DVR System Setup
  Operator : Monitoring & Setup For Live Screen
  Web Client : Only Live Image Monitoring
- Max. 4 People Connection Including Every ID, Administrator ID Supply Only One.

• CLIENT



① Record Setup

- Record Size/Rate/Quality Setup
  - Setup Each Channel Resolution & Compression Rate.
- Timer Recording Setup
  - Setup Time Schedule for Each Channel.
- Alarm Recording Setup
  - Setup for Alarm Recording.
- Motion Detection Setup
  - Setup for Motion Detection Recording.



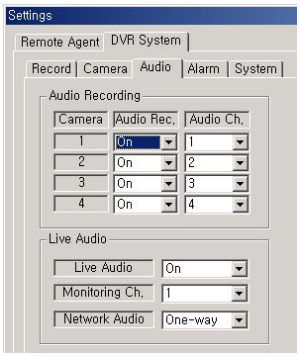
② Camera Setup

- Status/Title Setup
  - Setup for Each Camera (Connection Status or Camera Name).
- Color Setup
  - Setup Color for Each Screen.
- Covert/PTZ Setup
  - Setup Each Camera Covert Function & PTZ Protocol.

Tip

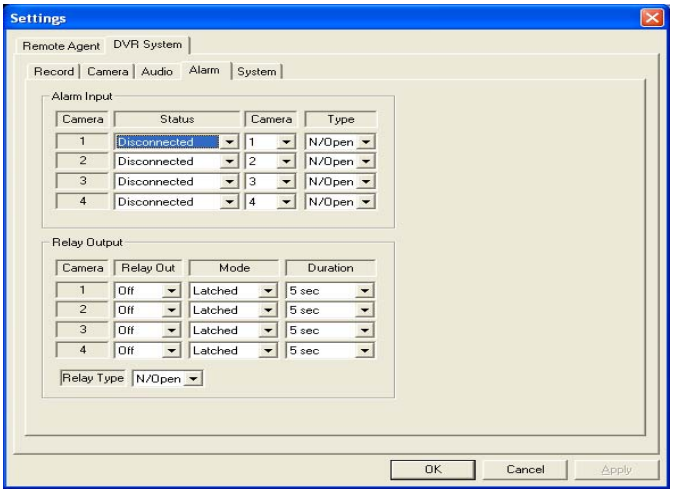
- Refer to DVR Server Setup for Each Setup Detail.

• CLIENT



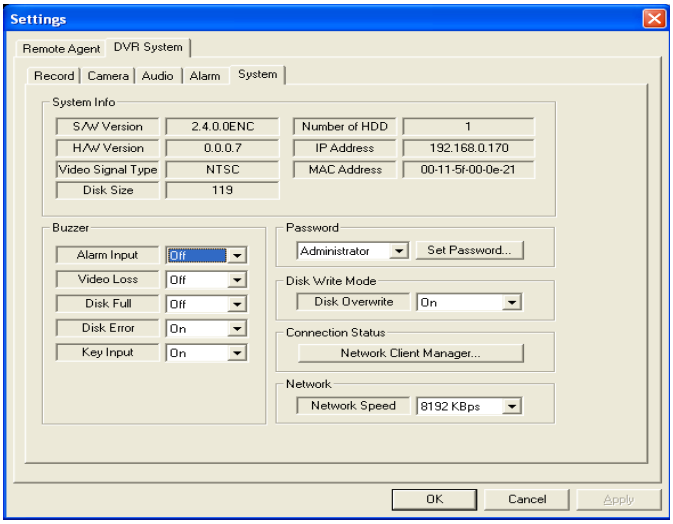
③ Audio Setup

- Audio Recording Setup
  - Setup for Each Channel Audio Recording.
- Live Audio Setup
  - Live Audio & Two Way Audio Setup for Server.



④ Alarm Setup

- Alarm Input Setup
  - Setup for Each Channel Alarm Connection & Type.
- Relay Output Setup
  - Setup for Each Channel Relay Connection & Mode.



⑤ System Setup

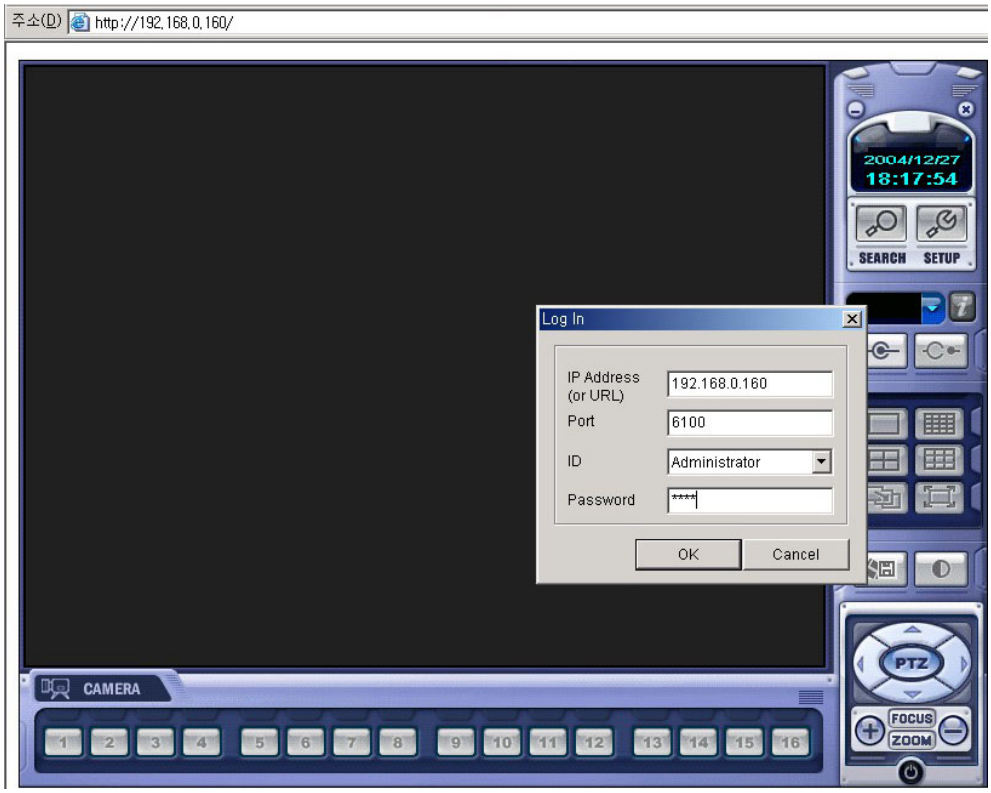
- System Info
  - Possible to Watch DVR System Status.
- Buzzer Setup
  - Setup DVR Buzzer Sound On/Off.
- Password Setup
  - Change Password for Administrator, Manager, Operator.
- Disk Write Mode
  - Setup DVR HDD Overwrite On/Off.
- Connection Status
  - Indicate Currently Connected All Remote Client Connection Status.

4.WEB Client

• WEB Client Connection

① Input IP Address for DVR Server at the Internet Explorer Address Input Place.

② When Appear Active-X install Message, Please Click Confirm or Continue.



③ Showing Web Client Window at Internet Explorer.

④ Click Connection Button and Pop-up 'Log In' Window.

• CLIENT

⑤ IP Address (or URL) : Input DVR IP or URL Address
Port : DVR Client Connection Port is 6100
ID : Select ID (Administrator, Manager, Operator).
(No Difference Authority on Web Client.)
Password : Input Password.

⑥ Only Possible to Monitoring Live Video As soon as Connection.